CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* denotes that this work is advertised in Engineering News.)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

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RAILWAYS.

ALABAMA, FLORIDA & GULF.—This company has been incorporated to build a line about 120 miles long from Chipley, Fla., to Crowley, Ala., via Enterprise, Slocum and Noma. The incorporators are the Alabama & Florida Lumber Co., the Noma Mercantile Co., Malone-Bealle Co., Faircloth-Sergeant Co., Morris Lumber Co., M. E. Daughty, L. P. Anthony, J. M. Pilcher, W. A. Fountain, A. Pelham and others.

CINCINNATI, BLUFFTON & CHICAGO.—Right-of-way has been secured for an extension of the C., B. & C. R. R. from Bluffton, Ind., to Huntington. The company now operates 30 miles of line connecting Bluffton, Reiffsburg, Petroleum, Nottingham, Fiat, Balbec, Pennville, Corkwell and Portland. John C. Curtis is Gen. Mgr., Bluffton. The city of Huntington has voted a $98,000 subsidy.

DENVER & SOUTH PLATTE.—This company has started construction work on its proposed railway which will connect Denver and Colorado Springs, Colo. Lyon, Hunter & Burke, Attys., Berger Bldg., Pittsburg, Pa., are interested. W. E. Hughes, 1575 Grant Ave., Denver, is Pres. H. W. HARTMAN, 335 Majestic Bldg., Denver, has contract for constructing the D. & S. P. Ry.

ERIE.—The Public Service Commission, Second District, New York State, has authorized the Erie R. R. Co. to expend more than $7,000,000 for the purchase of new rolling stock and equipment, as follows: For steel hopper cars, company is authorized to issue $2,140,000 of 5% car trust certificates; for new passenger coaches, $456,345 of 5% notes; for locomotives, $580,000 of 5% gold equipment trust certificates; for steel box freight cars, $3,000,040 of 5% car trust certificates; for steel coal cars, $1,000,000 of 5% car trust certificates

GEORGIA & FLORIDA.—The SCOFIELD CO., Pennsylvania Bldg., Philadelphia, has been awarded general contract for constructing the Georgia & Florida Ry. Noted on Aug. 8.

GRAYS BEND & CENTERVILLE.—Chartered to build a steam railroad from Grays Bend, on Duck River, in Hickman County, to Centerville, Tenn. Capital, $50,000. The incorporators are Garnet S. Andrews, Robert H. Williams, Charles F. Frizzell, Chas. N. Gilbert and C. T. Boyd, of Centerville.

IVANHOE & CARROLL.—Company has been incorporated in Virginia to build a railroad from Ivanhoe to Iron Rock, Wythe County. Capital, $5,000 to $10,000. The incorporators are R. A. Carter, Pres., Park Bldg., Pittsburg, Pa.; H. H. Carter, Secy. and Treas.; W. A. Glenn, Joseph Warner, S. H. Dean, R. A. Carter, Jr., and Ison Cook, all of Ivanhoe, Va.

LAKE SHORE & MICHIGAN SOUTHERN.—It is stated that bids will be asked soon by the L. S. & M. S. Ry. Co. for an extension of the Franklin & Clearfield branch from Franklin, Pa., to Clearfield and Versailles. S. Rockwell, Ch. Engr., Cleveland, Ohio.

LOOP & LOOKOUT.—Chartered in West Virginia with $100,000 capital. It will build a railroad 30 miles long from Lookout to Glencoe, W. Va., connecting with the Chesapeake & Ohio Railway. Preliminary survey is under way. The incorporators are W. W. Raine, L. R. T. Preysz, J. M. Raine, S. J. Snyder and T. W. Raine, Pres. of the Meadow River Lumber Co., all of Evenwood, W. Va.

LYNDHURST & SHERANDO.—We are officially informed that surveys have been completed by Pressey & Weller, Engrs., 1416 F St., N. W., Washington, D. C., for the Lyndhurst & Sherando R. R., and that the contract for the construction has been let. The construction work will probably be begun within the next 30 days. This road will connect the property of the National Manganese Corporation with the Norfolk & Western R. R. at Lyndhurst, Va.

NASHVILLE, SHELBYVILLE & DECATUR.—Chartered in Tennessee to build a railway 116 miles long. Present capital stock, $50,000, to be increased at a later date. The incorporators are H. B. Cowan, R. W. Clark, J. F. Boyd, W. G. Hill, J. D. Hutton, V. S. Parsons, H. C. Dyer, all of Shelbyville, Tenn.; H. K. Bryson and W. Z. Dozier, of Fayetteville, Tenn., and John F. Brock and W. R. Hall, of Decatur, Ala. The company will build a steam railway from Nashville to Murfreesboro, Rutherford County, thence southwest to Shelbyville, thence southeast to Fayetteville, thence south to Decatur, Ala. Here it will connect with the Southern Ry., the Memphis & Charleston Ry. and the Louisville & Nashville R. R. In Giles County it will make connection with the proposed Nashville & Huntsville Ry. and also with the Cincinnati & Birmingham Air Line. At Nashville it will connect with the Southern Ry. and the Illinois Central R. R. At Decatur it will connect with the Birmingham & Mississippi Southern R. R., now in course of construction. It is proposed to build a low-grade road, with light grades and light curvatures; 70-lb. steel rails; steel bridges and white oak ties.

PACIFIC & IDAHO NORTHERN.—E. M. Heigho, Vice-Pres. and Gen. Mgr., Weiser, Idaho, advises us that this line is now in operation from Weiser to Evergreen, 76 miles, and that an extension will be built from Evergreen to Meadows, 16 miles, and from Meadows to Roseberry, 35 miles. Final survey has been made and right-of-way partly obtained for the Evergreen-Meadows line. Preliminary survey only has been made for the Meadows-Roseberry extension. R. E. Merrick is Ch. Engr., Weiser.

PEOPLE'S RAILWAY.—J. M. Howe, Ch. Engr., Tyler, Tex., informs us that construction contracts will be let about Oct. 1st. The company proposes to build from Dallas, Tex., to Leesville, La., but has only made survey from Tyler to Canton, Tex., 38 miles. The officers of the company are as follows: Ben B. Cain, of Tyler, Pres.; John Durst, Tyler, First Vice-Pres.; D. F. Clark, of Canton, Second Vice-Pres.; T. B. Butler, Tyler, Secy., and S. Bruck, Treas. Concerning this railway, Mr. Cain recently advised us that this company has been chartered and has surveyed a line from Tyler to Canton, and has secured right-of-way, depot grounds and donations. "The company's plan is to have the citizens residing along this line subscribe to the capital stock to a sufficient extent to begin construction, and probably build from ten to twenty miles, and using this constructed road as a basis, finance the balance of the line." The road from Tyler to Canton will be one section of an air line from Dallas to New Orleans, which line will doubtless be built as soon as the railroad situation shall have adjusted itself. The section from Tyler to Canton can be cheaply constructed, so far as grading and bridges are concerned, and traverses a territory which will pay well from the beginning.

ROCKY MOUNTAIN RY.—R. L. Winslow, Gen. Supt., Granby, Colo., advises us that an extension will be built from Monarch, Grand County, Colo., the present terminal, northwest, 65 miles. The ROCKY MOUNTAIN CONSTRUCTION CO. will do the work. Surveys are made and capital secured. Right-of-way is practically obtained. T. S. Waltemeyer, Boulder, Colo., is Pres. Noted on Jan. 10.

SAN FRANCISCO, IDAHO & MONTANA.—Right-of-way has been practically all secured from Caldwell, Idaho, to Winnemucca, Nev., about 200 miles. This company, according to its articles of incorporation, will build a railway from Butte, Mont., to San Francisco. E. R. Place, Gen. Mgr., Caldwell; Donald Grant, Pres., Faribault, Minn.; I. H. Richardson, Ch. Engr., Caldwell. As noted on July 18, the contract for grading the first section of this railroad, between Caldwell, Idaho, and Snake River, 20 miles, has been let to W. P. CARTER, of Nampa, Idaho.

ST. LOUIS & SAN FRANCISCO.—We are officially advised that surveys are now being made for an extension from Shawnee, Okla., to Okmulgee, Ind. T., and from Shawnee to Weelecka, Ind. T. Choice of route will not be made until surveys are completed and tabulated. J. F. Hinckley, Ch. Engr., St. Louis, Mo.

TAYLOR, SOMERVILLE & GULF.—We are officially informed that this company has secured right-of-way for its proposed line from Taylor to Somerville, Tex., 60 miles. Surveys have been made. J. A. Thompson, Taylor, is Pres. Noted on July 25.

*VIRGINIA.—Contracts have been awarded by Capt. R. H. C. Kelton, Q. M., Fort Monroe, for reconstructing and extending railroad track at Fort Monroe; also for supplying locomotive and cars as follows: SAM P. WHITE, Washington, D. C., for alterations to railways, etc., $28,489; YOUNGSTOWN CAR MFG. CO., Youngstown, Ohio, one platform car, $569; SOUTHERN CAR CO., High Point, N. C., two passenger cars, $4,100; VULCAN IRON WORKS, Wilkes-Barre, Pa., one locomotive, $2,800.

WEST VIRGINIA.—The Pocahontas Collieries Co. will build a railroad from Rodenfield, on the Norfolk & Western Railway, up Spice Creek 4½ or five miles, to develop 4,000 acres of coal. The company will do its own work. William S. Wood, Secy., 30 Pine St., New York; S. H. Meem, Engr., Eckman, W. Va.

WHITE OAK RY.—Construction is now under way on extension to Mount Carbon, W. Va. Company operates ten miles of railway. F. W. Scarborough is Gen. Mgr., at Macdonald, W. Va.

WISCONSIN & NORTHERN.—Company has been granted permission by the State Railroad Commission to build an extension from North Crandon, Wis., to the northern boundary of Wisconsin, a distance of 34 miles. The intention of the company is to build to the Gogebic range and connect with the Northern Pacific. The company is capitalized at $1,000,000. The W. & N. R. R. now operates 27 miles of line. C. H. Hartley, Oshkosh, Wis., is Gen. Mgr.

ELECTRIC RAILWAYS.

PORTLAND, ME. We are offically advised that preliminary surveys are now being made for the Portland, Gray & Lewiston Railroad. No further steps will be taken until next spring. N. D. Sturges, 1 Madison Ave., New York, is interested. Noted fully on July 25.

PITTSFIELD, MASS.—A franchise has been granted by the Board of Aldermen to the Berkshire St. Ry. Co. for an extension of its tracks from East St. to a point beyond Berkshire Park. The time limit for building the road was set at one year. Henry Gough is Ch. Engr.

LONG ISLAND CITY, N. Y.—The New York & Queens County Ry. Co. will establish storage yards and repair shops on Jackson Ave. F. L. Fuller, Vice-Pres. and Gen. Mgr., 9 Borden Ave., Long Island City.

BABYLON, L. I., N. Y.—The Village Trustees on Aug. 27 granted the Babylon R. R. Co. a 100-year franchise to build and operate an electric railroad on Railroad Ave. The franchise states that the privilege for 50 years, with a right of renewal for another 50 years, under terms to be agreed on by the authorities, and in case of failure by them by a board of arbitration. A. P. Dodge, 261 West 139th St., New York, is Pres.

MERCER, PA.—The Mercer Construction Co., which has been granted a charter in West Virginia with $25,000 capital, will build an electric line from Mercer, Pa., northwest to Greenville, 15 miles. It is also proposed to build an extension from Greenville southwest to Sharpsville, eleven miles. The proposed extension is to form part of a line to connect Erie with Pittsburg. The incorporators include J. M. Campbell, L. W. Orr and T. P. Filer, of Mercer; W. Hilderbrand, of Pittsburg, and S. D. Downs, of Greenville.

LUCKNOW, PA.—The Dauphin St. Ry. Co. has been granted a charter. Capital, $75,000. Noted on Aug. 22.

JOHNSTOWN, PA.—T. Coleman du Pont, Pres. of the Johnstown Passenger Ry. Co., Wilmington, Del., has announced that this company will build an extension to Richland and Stony Creek, Cambria County, if these townships will furnish necessary right-of-way. G. Nelson Smith, Johnstown, is Ch. Engr.

BRUNSWICK, MD.—John S. Mallette, Ch. Engr. of the Brunswick & Middletown Electric R. R. Co., 3120 Market St., Philadelphia, Pa., advises us that company was granted a franchise recently for building proposed trolley line in Brunswick. It will extend from Brunswick to Petersville, Burkittsville, Broad Run and Middletown, 15 miles. W. Schnauffer, Brunswick, is Pres. Preliminary survey has been made and a considerable portion of right-of-way secured. No effort to start construction work will be made until next spring. Previously noted.

CLIO, S. C.—A committee has been appointed to consider plans for a projected electric railway from Clio to Bennettsville, S. C., ten miles. Among those interested are W. W. Evans, W. F. Cross, P. J. Smith, J. C. Covington and J. D. Edens. Mr. Covington advises us that right-of-way is obtained, but that capital has not been secured.

EDGEFIELD, S. C.—B. E. Nicholson, Chn. of the preliminary organization in the interest of an electric railway, has appointed a committee, composed of John C. Sheppard, A. E. Padgett and William P. Calhoun, to confer with the Augusta & Aiken Electric Railway Co. and also with the Seaboard Air Line Railway Co. concerning the proposed line, which is designed to extend from one road to the other via Edgefield.

FITZGERALD, GA.—Dr. L. C. Holtzendorff, of Valdosta, Ga., has been granted a street-railway franchise in Fitzgerald, Ga., and it is proposed to extend the line nine miles to Ocilla, Ga. Others interested are S. T. Holtzendorff and N. T. Whitney, of New York; D. K. Walbridge, of Saratoga, N. Y.; C. A. Holtzendorff and T. M. Paison, of Fitzgerald. Noted on Aug. 8.

ATLANTA, GA.—The Georgia Ry. & Elec. Co. will build an extension, about five miles long, extending from Brookwood to Buckhead. Thomas K. Glenn, Vice-Pres. and Mgr. of Rys.

COVINGTON, LA.—The St. Tammany & New Orleans Railway & Ferry Co. has been voted $5,000 a year, for ten years, by the Third and Fourth Wards, which include Covington and Mandeville. It is to be an electric line operating via Abita Springs and connecting at Mandeville with fast steamers to New Orleans.

PADUCAH, KY.—The American Engineering Co., of Indianapolis, Ind., will soon make survey for the proposed Paducah Southern Elec. R. R. The SOUTHERN CONSTRUCTION CO., of Paducah, has the general contract, as noted last week. W. A. Martin is Pres. and H. H. Loving is Secy. and Mgr. of the railroad company; and John F. Harth is Pres.; Geo. Rush is Vice-Pres. and H. H. Loving is Secy. of the construction company.

MANSFIELD, OHIO. — The Massillon, Wooster & Mansfield Traction Co. has been incorporated, with a capital stock of $10,000, by G. A. Bartholomew, W. C. Rhodes, O. Halm, J. H. Cousins and E. R. Lewis. The purpose of the company is to build and operate an electric railway between Mansfield and Massillon through Richland, Ashland, Wayne and Stark Counties.

DAYTON, OHIO.—The Dayton Street Railway Co. is preparing to construct a city railway line twelve miles in length, extending from Southeast Dayton to Dayton View and on out the Salem Pike to the Philadelphia Road in Harrison Township. The road is reported to be promoted by Chas. Bosler, Dennis Dwyer and A. Emanuel. Dennis Dwyer is Pres. of the Dayton, Covington & Piqua Traction Co.

EVANSVILLE, IND. — The Evansville, Princeton & Vincennes Interurban Ry. Co. plans an extension of its line from Princeton to Patoka, it is stated. A further extension from Patoka to Vincennes, 30 miles, is under consideration. R. R. Smith is Gen. Mgr., Evansville.

TRAVERSE CITY, MICH.—The City Council is reported to have granted a 60-year franchise to the Carter Construction Co., of Chicago, for a local street railway. It is proposed to build an interurban line north to Petoskey.

CHICAGO, ILL.—The Chicago & Interurban Railway Co., with a capital stock of $100,000, has been incorporated to build a line from Chicago south through Harvey, South Holland, Calumet, Thornton, Chicago Heights and Crete, to Joliet, Blue Island, Riverdale, Dalton City, Hammond and other towns. The incorporators are: J. W. McGill, John W. Humphrey, 59 Clark St.; Claude E. Fitch, L. E. Eaton, J. M. Miller, 164 Dearborn St.; H. D. Moreland, 97 Clark St.; and Fred. F. Myers, all of Chicago.

The Chicago & Oak Park Elevated R. R. Co. may build an extension to Elgin, Ill. E. C. Noe is Gen. Supt., 1117 Merchants' Loan & Trust Bldg.

DAVENPORT, IOWA.—The Davenport & Manchester Interurban Ry. Co., which was recently incorporated with $15,000 capital, has elected the following officers: Geo. T. Baker, Pres.; J. A. Voorhees, Vice-Pres.; F. W. Rank, Secy., and T. F. Halligan, Treas., all of Davenport. These men, with Henry Vollmer, L. Matthews and F. H. Miller, constitute the Board of Directors. The preliminary survey will be started at once. The railway will be about 90 miles long. Noted on Aug. 22.

A company, to be known as the Davenport & Dubuque Ry. Co., will be organized soon to build a railway to connect Davenport, Maquoketa and Dubuque. T. M. Jenkins, Mgr. of the National Construction Company, of St. Louis; O. Sampson, Theo. Daudel, J. L. Kinley, of Andrew, Iowa; C. W. Farr, C. F. Goller and Chas. von Schrader, of Maquoketa; W. S. Hill, Thomas and William Hughes, of Elwood; and Julius Rheimers, of Grand Mound, Iowa, are reported to be interested.

BEMIDJI, MINN.—Carl Gowran, of Grand Forks; George Teitsworth, of Minneapolis, and A. A. Carter, of Bemidji, are interested in a project to build an electric railway system here.

CROOKSTON, MINN.—Edward P. Burch, Consult. Engr., 1210 Guarantee Loan Bldg., Minneapolis, has made preliminary survey for an electric line to be built from Crookston to Maple Lake and Grand Forks.

CARRIZO SPRINGS, TEX.—D. J. Woodward, of San Antonio, is reported to be interested in plan to build an interurban railway from Cotulla to Carrizo Springs.

DALLAS, TEX.—The Dallas Interurban Electric Railway Co. has been granted an extension of time for six months to begin construction. D. E. Waggoner is Pres. J. Mercer Carter and others are interested. Noted on Aug. 22.

SAN ANGELO, TEX.—J. A. Williams, who has been granted a franchise for a street car system, states that it is the intention of the company to incorporate at once, with a capital stock of $200,000. Officers of the company will be J. H. Ransome, Pres.; W. T. Noblett, San Angelo, Vice-Pres.; J. A. Williams, San Angelo, Secy. and Treas.

CANON CITY, COLO.—Andrew J. Behymer, Pueblo, Colo., informs us that contracts will be let within 60 days for building sections of the Canon City, Pueblo & La Junta Ry. & Power Co.'s line. The railway will be about 206 miles long, running from Canon City east to Colorado state line. A. E. Bent, of Denver, is Pres. Surveys are under way. Right-of-way is partly obtained. Capital is partly secured. Chief engineer has not been appointed yet. Noted on July 25.

LA JUNTA, COLO.—The City Council has granted right-of-way to C. S. Alnutt for 20 years for an electric or gasoline motor railway to parallel the Santa Fe right-of-way through the main part of town. Right-of-way has been secured to Rocky Ford, eleven miles distant. The company must commence work within twelve months, have the cars in operation in 18 months, and establish a daily service of at least two cars each way in that time.

CENTRALIA, WASH.—The City Council has granted the Centralia & Chehalis Electric Ry. & Power Co. a franchise to construct an electric railway between this city and Chehalis. The franchise is for 50 years. A cash deposit of $1,000 provides for work to be commenced within three months, and completion of the work within a year. S. A. D. Eaton, Centralia, advises us that company has not been granted a franchise in Chehalis yet.

PULLMAN, WASH.—The survey for the Pullman, La Crosse & Columbia River R. R., passing about ten miles south of Colfax, through Union Flat, is about completed. J. O. Staats, of La Crosse, is in charge of the survey. Noted fully last week.

EUGENE, ORE.—The Eugene & Eastern Railway Co. is stated to have purchased from A. Welsh the street railway franchises granted the Willamette Valley Co. by the city of Eugene, the city of Springfield, and the right-of-way between the two cities, and the right-of-way up the McKenzie River. The deed includes all the properties in connection with the railroads formerly transferred to A. Welsh by the Willamette Valley Co. The officers of the Eugene & Eastern Railroad Co. are: J. O. Storey, Pres.; A. Welsh, Vice-Pres. and Gen. Mgr.; George Bracher, Treas. The directors are: J. O. Storey, A. Welsh, E. W. Hall, C. A. Hardy, J. C. Bracher, George Bracher and John Elliott.

SAN DIEGO, CAL.—The National City & Otay R. R. Co. will electrify its line between Coronado ferry and the Tent City. William Clayton is Vice-Pres., San Diego.

WINNIPEG, MAN.—The Winnipeg Electric Ry. Co. has approved plans for extensions to its lines to be built in the suburbs of Fort Rouge. W. Phillips, Gen. Mgr.

NEW WESTMINSTER, B. C.—The British Columbia Elec. Ry. Co. is preparing to let a contract for the construction of a railway between New Westminster and Chilliwack. R. H. Sperling is Gen. Mgr., Vancouver, B. C.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The United Electric Light Co., it is reported, has let contract to the ABERTHAW CONSTRUCTION CO., 8 Beacon St., Boston, for erection of an addition to its plant, 80 × 50 ft. The basement and floor will be of concrete and the superstructure of brick. A new marble switchboard, 40 ft. long and five times the size of the present board, will be erected. An 800-HP. McIntosh & Seymour cross-compound steam engine will be installed and connected directly with a 600-KW. three-phase generator, with the proper apparatus. The condensing apparatus and auxiliaries will be in the basement, and a new condensing pond, five times the capacity of the present one, will be built to the west. It is expected that the addition will be ready for use by February. W. L. Mulligan is Mgr.

*NEW LONDON, CONN.—Bids are asked by Maj. Harry Taylor, Corps Engrs., U. S. A., New London, until noon, Sept. 30, for furnishing 40 or more 25-KW. electric generating sets, each consisting of a gasoline driven multiple cylinder vertical engine, directly connected to a direct current generator.

NEW YORK, N. Y.—Bids are asked until Sept. 9 by C. B. J. Snyder, Supt. School Bldgs., Bd. Education, New York, for completing the abandoned contract for the electric equipment in School 109, Boro. Brooklyn.

ELLIS ISLAND (New York post-office), N. Y.—Bids are asked by Robert Watchorn, Comr. of Immigration, until Sept. 7, for furnishing materials and installing electric lighting in power house of Contagious Disease Hospital Group at Ellis Island Immigration Station.

ROCHESTER, N. Y.—Bids are asked until Sept. 30, by the Commissioners of Buildings of Monroe County for furnishing and putting in place 150 HP. 130 lbs. working pressure internal furnace boiler in the Monroe County power house, at Rochester; also same date and place for furnishing and installing an electric lighting plant in the basement of the Court-House at Rochester. G. L. Meade is Chn.

*WEST POINT, N. Y.—Bids are asked by Maj. J. M. Carson, Jr., Q. M., West Point, until noon, Sept. 30, for furnishing and installing combination gas and electric light fixtures in old and new cadet barracks.

MORRISTOWN, N. J.—The Board of Directors of the Morris & Somerset Electric Co., is reported to have instructed its Executive Committee to let contracts for the construction of the company's electric lighting plant immediately. The plant will cost about $200,000. Peter V. Stryker is Gen. Mgr.

NEWARK, N. J.—The two lowest bids opened on Aug. 23 by the Special Committee on Lighting of Common Council for an electric light plant in the City Hall were submitted by E. M. Waldron & Co., Cabinet St., at $28,904, and the Browe Co., 903 Broad St., at $29,981.

PITTSBURG, PA.—The Pittsburg "Dispatch" states that the Duquesne Light Co., of Pittsburg, which has secured franchises to furnish electric light and power, is preparing to construct transmission lines over and under the city and build [illegible] this purpose the compa[illegible] mortgage to the Fidelity [illegible] of Pittsburg, to secure as [illegible] $10,000,000 40 yr. 5% bo[illegible] extensions and other ne[illegible] has obtained a 4-acre tra[illegible] between the plant of the [illegible] Co. and the structural [illegible] Jones & Laughlin Steel [illegible] erect a steam turbine p[illegible] will have an initial capac[illegible] The plans have provided [illegible] to 50,000 KW. Contracts [illegible] and building will be pla[illegible] mated cost, $1,500,000. [illegible] Pittsburg Stock Exchange.

MANAYUNK (Philadel[illegible] PA.—WILLIAM H. DECH[illegible] is reported to have secur[illegible] building an electric powe[illegible] in Manayunk for supplyin[illegible] rounding mills. The plant [illegible] on Schuylkill River and [illegible] $100,000.

RUTHERFORD (Harrisb[illegible] post-office), PA.—The Philadelphia & Reading Ry. Co. has awarded to AUGUSTUS WILDMAN, of Harrisburg, a contract for erection of a building for an electric light, heat and power plant, together with a fan house and viaduct at its freight distributing yard at Rutherford. The power house will be 56 × 58 ft., built of brick on concrete foundations, and the fan house will be 20 × 24 ft. This plant is designed to provide electric lighting for the entire yard, as well as power and heat for the various car repair shops and more particularly the shop, 123 × 600 ft., which is nearing completion. The company is having a sewer constructed to carry off the drainage and sewage of the yard, at a cost of about $12,000. William Hunter is Ch. Engr., Philadelphia.

ALIQUIPPA, PA. — The PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th St. and Allegheny Valley Ry., Pittsburg, has secured a contract for the steam pipe system, including valves and fittings, for the power house being built by the Jones & Laughlin Steel Co., at its new plant at Aliquippa.

MANASSAS, VA.—Bids are asked until Sept. 28 for constructing a municipal electric light plant. O. E. Newman is interested.

ELKINS, W. VA.—The Elkins Electric Ry. Co. will develop water-power of the Cheat River, it is stated, for operating its electrical generators. The company will build 12-mile pipe line, using 14-in. pipes.—J. E. Morgan, Vice-Pres. and Gen. Mgr. of the Elkins Electric Railway Co., announces that the company will do its own construction, building an electric railway in Elkins and also an extension from Elkins to Bellington, W. Va., twelve miles, and possibly farther. Taylor & Taylor, of Elkins, W. Va., are the Engrs.

ENFIELD, N. C.—T. C. McKee and F. M. Pridgen are interested in plans to develop water-power at Bellamy's mill and build electric plant to furnish electric lights for Enfield and Whitakers, N. C., requiring an investment of $7,500.

JACKSONVILLE, FLA.—Bids are asked until Oct. 4 by the Board of Trustees for the water-works and improvement bonds, for furnishing, set up in running order on foundations furnished by the Board in electric light stations, one 1,500-KW., steam turbo-generator, a 50-KW. motor-driven exciter. Turbine to be run condensing steam pressure at boiler 150 lbs., no superheat, 27-in. of vacuum. Generator to be of the revolving-field type, 3-phase, 60-cycle, 2,300 volts. R. N. Ellis is Supt. B. F. Dillon is Chn.

GADSDEN, ALA.—The Tri-City Gas Co. has awarded contract to the LACLEDE FIRE BRICK CO., Manchester and Sulphur Sts., St. Louis, Mo., at about $10,000 for erection of producing furnaces. Company was recently reported incorporated with $150,000 capital stock to erect gas plant to supply Gadsden, Alabama City and Attalla. Main building will be 72 × 150 ft. and will cost, with machinery, $75,000. Henry C. Higgins, Dixon, Ill., Pres. and Gen. Mgr.

NEW DECATUR, ALA. — The Decatur Light, Power & Fuel Co., which supplies Decatur and New Decatur with light and power, will expend about $70,000 in improvements here, it is stated. H. B. Johnson is Mgr.

LANGDALE, ALA.—The West Point Mfg. Co. of West Point, Ga., has engaged Charles T. Main and John E. Porter, of Boston, Mass., as engineers for installation on Chattahoochee River of water power-electrical plant to transmit electricity to cotton-mill. The company will build reinforced concrete power-house about 40 × 200 ft. for the hydraulic and electric machinery, developing 3,000 HP. Contracts have been awarded to GLOBE IRON WORKS CO. of Dayton, Ohio, for water-wheels, gearing, harness work, head gate hoists, trash racks, etc., and to WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., of Pittsburg, Pa., for electrical machinery.

BILOXI, MISS.—The City Council is stated to have awarded to the GULFPORT & MISSISSIPPI TRACTION CO. the contract to light city with electricity for a period of ten years. J. A. Jones, Gulfport, Miss., is Mgr. of the traction company.

FAYETTEVILLE, TENN.—The Moley Counter & Gaines Mfg. Co. has awarded contract to the NASHVILLE CONCRETE CO., Nashville, Tenn., at $7,000 for construction of concrete dam across Elk River at Fayetteville.

LAWRENCEBURG, TENN.—Bids are asked until Sept. 13, for materials and labor for installing three 30-in. turbines, dynamo, induction motor and arc lights, centrifugal or triplex pump, steel tower and tank, cast iron pipe, hydrants and valves, cyclopean or reinforced concrete dam, reinforced concrete penstocks and power house, installing machinery, electric line construction and pipe laying. Walter G. Kirkpatrick, Jackson, Miss., is Engr.

PARIS, KY.—The Paris Electric Light Co. is contemplating increasing the capacity of its plant, and establishing a day service. The company will install an engine and boiler to provide for the day service. L. S. Allen is Mgr.

CINCINNATI, OHIO.—The Little Miami Light, Heat & Power Co., which proposes to harness the Little Miami River, it is stated, has secured additional land along that river, and expects to start work in the fall. The total expenditure, including land and equipment, will be about $1,000,000, it is stated. John W. Hill & Sons, First Natl. Bank Bldg., are Engrs.

COLUMBUS, OHIO.—Bids are asked until noon, Sept. 17, by the Board of Trustees of the Columbus State Hospital until noon, Sept. 17, for furnishing and installing complete in the power house at the Columbus State hospital, an engine, dynamo and switchboard. Dr. George Stockton is Supt.; Frank L. Packard, New Hayden Bldg., Columbus, is Arch.

*WYANDOTTE, MICH.—Bids are asked until 8 p. m., Sept. 17, by James G. Pinson, Secy. Board of Public Works, Wyandotte, for furnishing electrical machinery, details of which may be seen in the advertisement.

MADISON, WIS.—It is reported that the Madison Gas & Electric Co. intends expending $75,000 for new machinery and new buildings. John Corscot is Gen. Mgr.

TECUMSEH, NEB.—Contracts for constructing an electric light plant have been awarded as follows: To the BUCKEYE ENGINE CO., Salem, Ohio, one 80-HP. tandem c. p. engine, 225 r. p. m., and one 8-HP. simple engine, 257 r. p. m.; to the WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, Pa., one engine type, 125-KW., 3-phase, 60-cycle alt.; one engine type, 50-KW., 3-phase 60-cycle alternating; one switchboard complete, street lighting equipment and lighting transformers; to the ENGLISH IRON WORKS, 410 West Fifth St., Kansas City Mo., one 150-HP. boiler, Cookson heater, injector and Snow pump; WESTERN ELECTRIC CO., 611 Wyandotte St., Kansas City, Mo., all line material and poles. Total cost, $16,000. John Martz, Seward, Neb., is Engr.

UNIVERSITY PLACE, NEB.—Bids are asked until Sept. 7, for installing engines, generators and switch boards for the municipal electric lighting plant. Baker & Early, 1535 P St., Lincoln, Neb., are Engrs. Estimated cost, $18,000.

HELENA, MONT.—Press reports state that a third dam is to be built across the Missouri River at Helena for the development of electric power, and a portion of this will be utilized for a pumping plant which will reclaim 10,000 acres of land in Prickly Pear Valley just below the city. The same interests which built the present dam are behind the new one, and include the estate of Abram Hewitt, and A. M. Holter of Helena. The pumping plant will cost between $400,000 and $500,000. The dam will cost approximately $1,000,000. The power will be utilized to a large extent in Butte mines, East Helena and Anaconda smelters, and minor industries. Work will begin immediately on the new dam and ditches.

BILLINGS, MONT.—The Board of Directors of the Billings Heating Co. is stated to have awarded contract to construct plant to the IOWA CONSTRUCTION CO., of Oskaloosa, Iowa, at $67,400. Other bids received were: The Electric & Steam Engine Co., of St. Louis, Mo., at $69,472, and the Beeman Stocking Co., of Billings, at $69,039.

ST. LOUIS, MO.—The Board of Public Improvements will add about 4,000 lights to the street lighting service.

WAURIKA, OKLA.—Waurika Public Service Corporation, recently incorporated to operate gas and electric plants, will erect and equip plant at cost of $50,000 to $60,000. A 75-KW. electrical system and 25-ton ice equipment will be installed. William F. Davis Engineering Co. is making plans and specifications.

OKLAHOMA CITY, OKLA.—Oklahoma City Street Ry. Co. has begun excavation work for proposed power plant in Belle Isle addition, and it is expected to begin operations about Jan. 1. The building will be of brick and granite; fireproof; 40 ft. high and 100 ft. square; concrete foundation. Equipment will include boilers used in generating steam for the plant with a combined capacity of 3,206 HP. and three engines to operate dynamos, each having a capacity of 1,300 HP. It is estimated that completed plant will cost between $180,000 and $200,000. John W. Shartel is Vice-Pres. and Gen. Mgr.

CANON CITY, COLO.—The Beaver Creek Power Development Co. has filed plans of the company's proposed development. The company is to develop electric power in connection with the Beaver Land & Water Co. improvements. The pipe lines have their head gates on East and West Beaver Creek. The East Beaver line will be nearly ten miles long and will be constructed of 24-in. pipe having a capacity of 15 cu. ft. of water per second with a fall of 1,800 ft. The West Creek line will be a little over 4½ miles long, will be constructed of 30-in. pipe and have a capacity of 18 cu. ft. of water per second with a fall of 1,200 ft. The power station will be erected below the junction of the creeks and the approximate cost of the undertaking will be $750,000.

LEBANON, ORE.—N. R. Lang has appropriated 400,000 cu. ins. of water, it is stated, from the south fork of the Santiam River. Canals and flumes will be built above Waterloo. The canals will be 10 ft. deep and 40 ft. wide.

REDONDO, CAL.—The War Department, Washington, D. C., is reported to have granted to the Los Angeles Wave Power & Electric Co. all necessary rights and privileges for the establishment of a plant here. Fred. Starr, Los Angeles, is Pres.

PASADENA, CAL.—The Electric Light & Supplies Committee of the City Council is stated to have decided to enlarge the municipal electric lighting plant by the adding of 150 lamps, 50 to be arcs and 100 incandescents of 32 c. p. C. C. Glass is Mgr.

SAN FRANCISCO, CAL.—At a recent meeting of the Artificial Lights Committee of the Board of Supervisors, John A. Britton, Pres. of the San Francisco Gas & Electric Co., submitted a plan showing the locations of the lamps to be restored in the burned district. The company will install 1,300 gas lamps and 63 arc lights and Chinatown will be lighted at once.

OAKLAND, CAL.—Press reports state that the Southern Pacific Co. intends to construct an electric power plant on a block of land recently purchased near Fruitvale. It will serve the local lines of Oakland, Alameda, Fruitvale, Melrose and Berkeley, all of which will be electrified. Julis Kruttschnitt is Vice-Pres. W. Hood, San Francisco, is Ch. Engr.

LEWISTON, IDAHO.—The Lewiston Gas Co. is reported to have decided to install two new retorts, and extend the mains.

DURHAM, ONT.—The Northumberland & Durham Power Co. is considering the question of transmitting power to Kingston, Ont. The point of development will be Healy Falls.

TORONTO, ONT.—The Hydro Electric Power Commission, of this city, has sent a surveying party to locate the transmission line from Hamilton to Guelph, Berlin, St. Mary's and Stratford.

BATTLEFORD, SASK.—The contract for installation of an electric power plant has been awarded to the JAMES STUART ELECTRIC CO., Winnipeg.

REVELSTOKE, B. C.—Bids are asked by A. Brown, Mayor, until 6 p. m., Sept. 30, for all labor and materials necessary for the enlargement of the civic hydro-electric plant, comprising 500-HP. producer gas plant and engines, generators and exciters, transmission machinery, switchboards, wiring and the rearrangement of the present plant. H. Floyd is City Clerk. Cecil Goddard, Winnipeg, Man., is Consult. Engr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—We are officially advised that the following bids were received Sept. 3 for constructing superstructure only for steel bridge across the B. & M. R. R. on line of Abbe Ave.: Boston Bridge Co., Boston, Mass., $14,999; H. P. Converse & Co., 120 Milk St., Boston, Mass., $19,376; R. F. Hawkins Iron Works, Springfield, Mass., $19,450; United Construction Co., Albany, N. Y., $17,832; New Jersey & West Virginia Bridge Co., Manasquan, N. J., $15,630; H. L. Norton, 632 Broad St., Boston, Mass., $15,449; Berlin Construction Co., Berlin, Conn., $16,582; Canton Bridge Co., Milwain Bldg., Albany, N. Y., $17,740; Penn Bridge Co., Beaver Falls, Pa., $16,945. Charles M. Slocum is City Engr.

MILLBURY, MASS.—The BERLIN CONSTRUCTION CO., of Berlin, Conn., has been awarded contract for constructing bridge across Blackstone River at South Main St. Fred. W. Moore is Chn. Bridge Com.

SOUTH YARMOUTH, MASS.—The lowest bid received Aug. 26 by the County Commissioners for constructing steel bridge between South Yarmouth and Dennis was submitted by the Baldwin Bridge Co., of Boston, at $31,200.

MAHANOY CITY, PA.—The Borough Council has awarded contract for constructing concrete bridge at Fourth Alley to SMITH & CAMPION.

PHILADELPHIA, PA.—Plans and specifications for constructing bridges, as advertised, are on file at office of Engineering News, New York. Bids are asked by the Department of Public Works, George R. Stearns, Dir., until noon, Sept. 11. George S. Webster is Ch. Engr.

*WASHINGTON, D. C.—Bids are asked until noon, Sept. 14, by the District Commissioners for filling the approaches to the Anacostia Bridge, D. C. About 90,000 cu. yds. of material will be needed.

SHEPHERDSTOWN, W. VA.—Plans are being prepared for the Norfolk & Western Ry. Co., for constructing piers for bridge across Potomac River betwen Washington County, Md., and Jefferson County, W. Va. C. S. Churchill, at Roanoke, Va., is Ch. Engr.

GREENVILLE, S. C.—The Greenville & Knoxville R. R. Co. will construct two steel bridges, two steel viaducts and four tunnels on its line between Greenville and Hendersonville, N. C. J. N. Johnston, at Marietta, S. C., is Ch. Engr.

PALATKA, FLA.—The Board of County Commissioners contemplates constructing bridge across St. Johns River from Hogeye Point to East Palatka. Estimated cost, $60,000.

VICKSBURG, MISS.—Bids are asked by H. J. Trowbridge, City Clk., until Sept. 16 for constructing two reinforced concrete bridges. Walter G. Kirkpatrick, of Jackson, Miss., is Engr.

LENOIR CITY, TENN.—MORELAND & MOSES, of Knoxville, Tenn., have been awarded contract to construct concrete arch across Town Creek.

*CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, Sept. 20, for reconstructing and repairing structural steel work of Liberty St. Viaduct. C. N. Dannenhower is Ch. Engr.

STEUBENVILLE, OHIO.—Bids are asked by the County Commissioners until noon, Sept. 6, for constructing substructure for bridge No. 12 across Hollow Rock Run in Saline Township. J. M. Reynolds is County Audr.

OBERLIN, OHIO.—Bids are asked by the Board of County Commissioners, Charles Chandler, Clk., until 1 p. m., Sept. 13, for bridge work.

EATON, OHIO.—Bids are asked by the Board of County Commissioners until noon, Sept. 14, for constructing approaches to bridge being constructed across Four Mile Creek, Dixon Township. C. W. Eidson is County Audr.

INDIANAPOLIS, IND.—The County Commissioners contemplate construction of two concrete arch bridges over Fall Creek, one at Delaware St. and other at Capital Ave.

MARION, IND.—Bids are asked by the County Commissioners until Sept. 10 for constructing 50-ft. steel bridge.

ECORSE, MICH.—Bids are asked by Frank J. Riopelle, Township Clk., until 1.30 p. m., Sept. 7, for constructing five steel bridges.

FOND DU LAC, WIS.—The Council has awarded contract to SCORIS BROS. of Milwaukee, for constructing bridge at Johnson St.

DES MOINES, IOWA.—We are officially advised that the following bids have been received from Des Moines contractors for constructing Locust St. reinforced concrete bridge: MARSH BRIDGE CO., $124,800 (awarded contract); Cook Construction Co., $128,963 and Stark Bridge Co., $142,650. The bridge will be 510 ft. in length, 70 ft. wide, with five spans, two 72 ft., two 82 ft. and one 92 ft. George D. Dobson is City Engr.

MINNEAPOLIS, MINN.—Bids are asked by the Board of County Commissioners until 11 a. m., Sept. 16, for constructing bridge No. 290, contract No. 19. Hugh R. Scott is County Audr.

LUVERNE, MINN.—The contract for constructing bridge across Rock River at Main St. has been let to P. N. GILLHAM, for $3,430.

WICHITA, KAN.—Bids are asked by the Board of County Commissioners, C. N. Cartwright, Clk., until noon, Sept. 9, for constructing reinforced concrete bridge over Arkansas River at Douglas Ave., Wichita. George H. Bradford, at Wichita, is Engr.

AUSTIN, TEX.—The construction of either a concrete or stone bridge across Colorado River is being considered. Estimated cost, $500,000. C. E. Leonard is City Engr.

GREELEY, COLO.—Bids are asked until Sept. 20 for constructing 135 ft. reinforced concrete bridge at Greeley. G. Houston, at Denver, is Deputy State Engr.

LEADVILLE, COLO.—Bids are asked until Sept. 13 for constructing 80-ft. concrete bridge at Leadville. G. Houston, at Denver, is Deputy State Engr.

PATEROS, WASH.—The following bids have been received by the State Highway Board for constructing 250-ft. steel bridge, with timber trestle approaches across Methow River near Pateros at State Road No. 10: International Contract Co., Plan (A), $14,988, Plan (B), $15,927; Northwest Bridge Co., (A), $20,389, (B) $15,698; I. J. Bailey & Co., (A), $17,514, (B), $15,698; J. W. QUIGG, (B) $13,754 (awarded contract), (A), $13,234. Bowerman & McCloy, of Seattle, are Consult. Engrs.

PORTLAND, ORE.—Plans have been prepared for constructing reinforced concrete bridge across Sullivan's Gulch at East 28th St. Estimated cost, $70,000. Douglas W. Taylor is City Engr.

Plans are being prepared for constructing bridge across Sullivan's Gulch at Union Ave.

OROVILLE, CAL.—The Board of Trustees has awarded contract for constructing city's span of Feather River bridge to the PACIFIC CONSTRUCTION CO. for $6,500.

*LOS ANGELES, CAL.—Bids are asked by the Board of Public Works, Horace B. Ferris, Secy., until 11 a. m., Oct. 14, for constructing reinforced concrete bridge across Los Angeles River at Seventh St. H. G. Parker is Bridge Engr. Plans and specifications are on file at office of Engineering News, New York.

UKIAH, CAL.—Bids are asked by D. H. Lawson, Clk. Board of Supervs., until 2 p. m., Sept. 16, for constructing bridge across gulch on Clow Ranch, Second Supervisial District.

HOMEDALE, IDAHO.—Bids will soon be asked by the San Francisco, Idaho & Montana Ry. Co. for constructing 150-ft. bridge across Snake River at Homedale. F. H. Richardson is Ch. Engr.

BOISE, IDAHO.—Bids are asked by the County Commissioners until Sept. 9, for constructing four bridges.

FT. WILLIAM, ONT.—WILEY & BELFOUR, Ft. William, Ont., have been awarded the contract for constructing substructure of bridge connecting the main line of the Grand Trunk Pacific R. R., with the terminal, for about $150,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Erwin C. Rossbach, Arch., 1947 Broadway, has practically completed plans for a 3-story theater for Butler Davenport, to cost $150,000.

It is reported that Donn Barber, Arch., 24 E. 23d St., has let general contract to MARC EIDLITZ & SON, 489 Fifth Ave., for constructing a 7-story club building for the Lotos Club, to cost $300,000.

We are officially advised that Schwartz & Gross, Archs., 35 West 21st St., New York, have completed plans for a 12-story brick and stone apartment house, to be erected on West 116th St. for Paterno Bros., 616 W. 116th St. The building will be 75 × 82.11 ft., and will cost $225,000. Estimates are being taken on the steel and stone work.

Neville & Bagge, Archs., 217 West 125th St., are preparing plans for a 6-story apartment building, 115 × 74 × 99 ft., at 133d St. and Broadway, for Daly & Carlson, 133d St. and Broadway. **The structure will be of brick and stone construction, with galvanized iron cornice and skylight, plate glass, marble and tile work, hard plaster, gas and electric fixtures and plumbing. Estimated cost, $200,000.**

NEW YORK, N. Y.—Bids were received as follows by Moses Herrman, Pres. Dept. of Parks, Aug. 29, for addition F to the Metropolitan Museum of Art, Fifth Ave. and 82d St. It will be three stories high, brick and stone, fireproof, marble and tile work; architectural and structural iron and steel work, etc. Item A is for work in accordance with the plans and specifications, details and directions thereof. Should pink Knoxville marble be substituted for all Hanteville marble floor and stairwork, as specified, deduct the amounts of Item B from Item A: Buckley Realty & Construction Co., 156 Fifth Ave., (A) $435,000, (B) $1,500; Thomas Cockerill & Son, 147 Columbus Ave., (A) $408,000; (B) $3,000; John H. Parker Co., 225 Fourth Ave., (A) $428,797, (B) $2,000; M. Reid & Co., 114 West 39th St., (A) $404,585, (B) $1,500; Thomas Dwyer, Amsterdam Ave. and 139th St., (A) $469,020, (B) $2,000; A. L. Guidone, 1 Madison Ave., (A) $434,300, (B) $2,000; Kelley & Kelly (Inc.), 45 East 42d St., (A) $411,133, (B) $1,500.

NEW YORK, N. Y.—Helmle & Hubert, Archs., 190 Montague St., Brooklyn, have let general contract to JOHN PEIRCE CO., Lenox Ave. and 45th St., New York, for constructing a 1-story granite bank building, 50 × 56 ft., at corner of Manhattan Ave. and Calyer St., for the Greenpoint Savings Bank. Estimated cost, $125,000.

W. H. McElfatrick, Arch., 1402 Broadway, New York, will receive estimates about Sept. 7 for a theater at Greenpoint, for the Orpheum Theater Co., 1133 Broadway. Cost, $200,000.

*BINGHAMTON, N. Y.—Bids are asked until 3 p. m., Sept. 11, by the State Commission in Lunacy, for constructing dining room and kitchen addition to the chronic building, Binghamton State Hospital, Binghamton. T. E. McGarr is Secy.

BUFFALO, N. Y.—Bids are asked until Sept. 11 by Francis G. Ward, Comr. Pub. Wks., for erecting a 20-room brick school at Broadway and Krupp St., District 44. Bids on material and labor, also on each branch of the work are to be submitted separately.

SYRACUSE, N. Y.—Bids will be received about Sept. 16 for constructing a school building on the Salina School site. The school building will have 16 classrooms and an assembly hall. Fireproof stairways will be provided, and the halls will be large enough to afford means of easy exit in case of fire. The building will front on Center St., as does the present school. Gaggin & Gaggin 920 University Block, are Archs. Henry C. Allen is City Engr. The plans for heating and ventilating the building have been completed by E. E. Palmer, Mechanical Engr.

ALBANY, N. Y.—We are officially advised that contract for constructing the New York State Normal College, at Albany, has been awarded to A. E. STEVENS, Binghamton, N. Y. A. R. Ross, New York, is Archt. for the exterior; George L. Heins, State Arch., Albany, is Arch. for the interior. H. H. Horner is Secy.

The M. L. Ryder Building Co., 356 State St., Albany, is preparing plans for an apartment house to be constructed on the corner of Lark and State Sts. The structure will be of fireproof construction and six stories in height, with a frontage of 60 ft. on State St. and 160 ft. on Lark St. It will be of Colonial design, built of pressed brick and stone, and will be built on all four sides with air and light courts at frequent intervals. There will be five private apartments on each floor, each apartment having a private kitchen. There also will be a general kitchen and dining-room in the building.

*CAPE MAY, N. J.—Bids are asked until 11 a. m., Sept. 14, by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, for constructing a building at Cape May.

*BAYONNE, N. J.—Bids are asked by the Board of Education, Bayonne, until 8.30 p. m., Oct. 3, for constructing Public School No. 9, between East 25th and East 26th Sts. R. T. Hewitt is Secy.; A. C. Longyear, 126 Liberty St., New York, is Arch.

*DANVILLE, PA.—Bids are asked until noon, Sept. 24, by Dr. H. B. Meredith, Supt. State Hospital for the Insane, at Danville, for erecting a female infirmary building and buildings for acute insane male and acute insane female patients. T. P. Reitmyer, Masonic Temple, Williamsport, Pa., is Arch.

PHILADELPHIA, PA.—Bids were received as follows Sept. 3, at the office of the Supervising Architect of the Treasury, Washington, for installing two electric passenger elevators in the Philadelphia post-office: Otis Elevator Co., New York, $12,985; Marine Engine & Machine Co., 126 Liberty St., New York, $11,666.

PHILADELPHIA, PA.—Pitcher & Tachau, 113 East 19th St., New York, have been commissioned to complete plans for the building for the Mickve Israel Congregation. The new building will be at Broad and York Sts. The total cost of the structure will be about $150,000.

Ballinger & Perrot, Archs., 1200 Chestnut St., have prepared plans and specifications for a building on the west side of Fifth St., south of Locust St. The building will be erected on the old Free Quaker burial ground, at a cost of about $350,000, for the Locust Realty Co., which recently took title to the ground. The building will be erected by MOORE & CO., who have been awarded the contract, and will start work at once. It will be five stories high, with a basement, and will measure 116 × 198 ft., with a reinforced concrete skeleton construction and curtain walls of brick, and terra cotta trimmings. The construction will include tower fire escapes, a brick inclosed stairway, and electric elevators. A driveway leading from Fifth St. will measure 32 × 100 ft., and a loading platform 21 × 76 ft. will be provided.

Mantle Fielding, Arch., 110 South Fourth St., has plans for an addition to home and club-house, at Germantown, for the Boys' Parlor Association. **The addition will have four stories, of brick with slate roof, open**

plumbing, steam heating, electric light fixtures, plate glass, etc. Estimated cost, $250,000.

It is probable the Manufacturers' Club, 1409 Walnut St., will erect a club building. According to the description given out by the Building Committee, the basement will contain a swimming pool, a barber shop, bowling alleys, Turkish and shower baths, a kitchen and pantries. On the first floor will be a hall, with an open stairway, reception, reading and billiard rooms, a men's cafe, an office and coat-rooms. The second floor will have several dining rooms and coffee and a smoking room. The third floor will contain a hall in the rear 25 ft. high, capable of seating 1,000 persons. The fourth floor will contain meeting rooms and halls and the requisite committee rooms for the accommodation of local, state or national business bodies. The fifth, six and seventh floors will each have 24 sleeping rooms, with baths, and possibly an eighth floor, similarly fitted, may be provided. The roof garden will be a special feature on both the Walnut St. and Broad St. fronts.

BALTIMORE, MD.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Oct. 7, for the construction and mechanical equipment (except plumbing), of an extension to the U. S. post-office, court-house, etc., at Baltimore.

WASHINGTON, D. C.—Bids were received as follows Aug. 28 at the office of the Superintendent of the Capitol Building and Grounds, Washington, for two passenger elevators for the District court-house, Washington: Otis Elevator Co., 17 Battery Pl., New York, (a) tandem gear, $10,750, (b) single worm gear, $9,485; Thomas W. Power, Washington Loan & Trust Bldg., Washington, (a) $8,833; Marine Engine & Machine Co., 126 Liberty St., New York, (a) $11,826, $11,566, (b) $11,112, $10,852; Kaestner Co., 241 South Jefferson St., Chicago, $9,950; Brodesser Elevator Co., Milwaukee, Wis., (a) $14,920, (b) $14,420.

JACKSONVILLE, FLA.—L. M. Weathers Co., Archs., Cotton Exchange Bldg., Memphis, Tenn., has plans for erecting a 7-story Masonic Temple and office building. Cost of building, $110,000. George L. Drew is Secy. Building Com., Masonic Association, 106 Main St.

INDIANAPOLIS, IND.—D. A. Bohlen & Son, Archs., Majestic Bldg., have completed plans for a 3½-story school building for St. Agnes Academy, to cost $250,000.

We are officially advised that HETHERINGTON & BERNER, 19 West South St., have contract for steel work for the 11-story office and bank building for Samuel Richcreek. Other contracts will be let about Dec. 1. The structure will be constructed of brick, fireproof, and will be 67 x 78 ft. Estimated cost, $200,000. The Henry C. Brubaker Co., Indianapolis, is Arch.

NEGAUNEE, MICH.—We are officially advised that L. E. CHAUSSEE, Negaunee, has been let contract by the School Board for erecting a high-school at Negaunee. John D. Chubb is Arch., 112 Clark St., Chicago, Ill.

*PEORIA, ILL.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Oct. 17, for constructing an extension and remodeling the U. S. post-office and court-house at Peoria.

CHICAGO, ILL.—It is reported that Oscar Hammerstein, New York, will build an opera house in Chicago, to cost $1,000,000. It is stated that the structure will be erected near Twelfth St., on Michigan Ave., and will have a frontage of 350 ft. and be 150 ft. deep.

A building is to be erected by the Hamilton Club, which will cost between $1,500,000 and $2,000,000.

Plans have been completed for the Princess Theater, which is to be erected at 255 Clark St. The work is to be done under the direction of Mort H. Singer, of the La Salle Theater. The building will contain two stores and a rathskeller. The cost is $150,000.

NORTH CHICAGO, ILL.—The NORTHERN CONSTRUCTION CO., of Milwaukee, has secured the contract for constructing twelve buildings at the naval training station for $370,000. Bids were opened Aug. 15 at the office of the Bureau of Navigation, Washington, D. C. Noted Aug. 22.

GREEN BAY, WIS.—Designs will be received at office of the County Board until noon, Oct. 15, for a court-house, county jail and sheriff's residence, to be built of stone and brick, at a total cost of $300,000. E. S. Hall is County Clerk.

LAWRENCE, KAN.—Bids are asked until 11 a. m., Sept. 17, by the Regents of the University of Kansas, for erecting an Engineering Building on the campus of the University. John F. Stanton is State Arch.

FORT SMITH, ARK.—We are officially advised that contract for a 6-story 160-room concrete hotel, 135 x 120 ft., has been let to the MANHATTAN CONSTRUCTION CO., of New York. Contract was let Aug. 30. The building will cost $160,000 and equipment $30,000. The Fort Smith Hotel Co. is the owner. Herbert E. Hewitt, Arcade Bldg., Peoria, is Arch.

SEATTLE, WASH.—Graham & Myers, Lowman Bldg., are preparing plans, it is stated, for enlargement of the Algonquin apartment house, on East Union St. and 14th Ave. Estimated cost, $160,000.

TACOMA, WASH.—A 24-story building, to cost $6,000,000, will be erected here, and will front on Pacific Ave., C St. and Cliff Ave. The building will be used as a combined hotel and office building, storage and warehouse, and into its basement the Northern Pacific Ry. Co. will run four sidetracks. Tunnels will be cut into the bluff for switching and storing cars. The top ten stories of the structure will be the hotel part, and will contain about 700 rooms. There will be an office section of the building, and below this will be six stories for warehouse purposes, leaving the lower six stories for storage purposes. The building will be built of steel and brick, and will be fireproof. E. W. Houghton, Collins Bldg., Seattle, is Arch.

SAN FRANCISCO, CAL.—Mrs. B. Sheideman has applied for a permit to erect an 8-story brick office building at the corner of Stockton and Sutter Sts., to cost $160,000.

A bond issue of $2,000,000 to build a 4-story Class A building to replace the Larkin St. wing of the City Hall, to conform in architectural effect to the general plan of the structure, and a bond issue of $750,000 to replace the Hall of Justice with a Class A structure has been recommended by the Supervisors.

SAN FRANCISCO, CAL.—Application has been made by the Keystone Real Estate Co. for a permit to erect a 6-story apartment house on the corner of Hyde and Washington Sts., at a cost of $250,000.

We are officially advised that the THOMPSON-STARRETT CO., 2053 Sutter St., San Francisco, has general contract to erect a 3-story building on the corner of Stockton and O'Farrell Sts. for the D. Samuels Lace House Co., Sutter St. and Van Ness Ave., at a cost of $300,000. The structure is to be completed the early part of 1908. Hyman Bros. are the owners of the property, the dimensions of which are 137 ft. 6 ins. x 137 ft. 6 ins. The structure will be a fireproof Class A building. Its facing will be of brick, with ornate terra cotta trimmings, and iron and glass awnings will extend across the sidewalk over each entrance. Meyers & Ward, Kohl Bldg., are Archs.

OGDEN, UTAH.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has rejected all bids received for an extension for the Ogden post-office and will reissue plans and specifications for larger building.

OTTAWA, ONT.—Prizes in the competition among Canadian architects for the four best designs for the $3,000,000 Department Block and Justice Buildings to be built here are stated to have been awarded as follows: W. S. Maxwell, Montreal, Que., first prize; Darling & Pearson, 2 Leader Lane, Toronto, second; Gaxe & Archibald, Montreal, third; D. R. Brown and Hugh Vallance, Canada Life Bldg., Montreal, even for fourth.

CALGARY, ALTA.—We are officially advised that bids will be received about Sept. 20 for constructing a general hospital here, to consist of a maternity hospital, isolation hospital and nurses' home. There will be two buildings, three stories high, constructed of red brick with stone trimmings, at an estimated cost of $140,000. The hospital will cover an area of about 7½ acres. F. Parker, Calgary, is Secy.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

FAIR HAVEN, VT.—The water supply system will be extended by constructing additional reservoirs and laying about one mile of 8-in. pipe. Estimated cost, $15,000. Washburn Fancher is Engr.

PAWTUCKET, R. I.—The contract for constructing pumping station for water-works has been awarded to WILLMARTH & MACKILLOP, of Pawtucket, at about $42,120. George A. Carpenter is City Engr.

EAST HARTFORD, CONN.—A 4-in. water main will be laid in Bigelow St.

NEW LONDON, CONN.—Bids are asked by Capt. William E. Horton, Q. M., New London, until 10 a. m., Sept. 16, for furnishing and installing approximately 1,550 lin. ft. 4-in. pipe at Fort H. G. Wright, N. Y.

FISHKILL, N. Y.—Brown & Freeman, of New York, have been granted franchise for installing water-works. The source of supply will be Van Wyck Lake.

AUBURN, N. Y.—The Water Commission has awarded contract to the TRUMP MFG. CO., at $4,500, for constructing water wheels at lower pumping station.

*ROME, N. Y.—Bids are asked by the Board of Water and Sewer Commissioners, Ray Armstrong, Clk., until noon, Sept. 25, for constructing dam at Fish Creek and tunnel about 5,500 ft. in length. Knight & Hopkins, of Rome, are Engrs.

*HIGHLANDS, N. J.—Bids are asked by the Borough Council until 8.30 p. m., Sept. 25, for erecting municipal water-works. The work includes power house and foundations, stand pipe, pipe line, compound duplex steam pumps, air compressor, wells and receiving tank and steam boiler and piping. Tunis H. Lane is Boro. Clk. Runyon & Carey, 122 Market St., Newark, N. J., are Engrs.

WASHINGTON, N. J.—The Washington Water Co. will construct storage reservoir and lay about two miles of water mains. Estimated cost, $20,000.

WILMINGTON, DEL.—Bids will soon be asked for constructing filtration plant. Theodore A. Leisen is Ch. Engr. Water Dept.

MANASSAS, VA.—Bids are asked until Sept. 28 for constructing water-works and electric light systems. Pressey & Weller, 1416 F St., N. W., Washington, D. C., are Engrs.

PULASKI, VA.—Surveys are being made for constructing reservoir. G. H. Derrick is Engr.

VIENNA, GA.—The contract has been let to WALTON & WAGNER, of Atlanta, Ga., for construction of water-works for $16,100. The contract includes about 2¼ miles of 6 to 10-in. mains, pump, boiler and reservoir. The contract for constructing tower and tank, artesian well and power house has not yet been awarded. Arthur Pew, Atlanta, Ga., is Engr.

FT. BARRANCAS, (Pensacola post-office), FLA.—Bids are asked by Lieut. A. L. Rhoades, Q. M., until 11 a. m., Sept. 26, for constructing 200,000-gallon reinforced concrete reservoir, installing steam pump and steam air compressor and extending water main at Ft. Barrancas.

LAWRENCEBURG, TENN.—See under Light and Power Plants.

CANTON, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., Sept. 16, for constructing the S. D. Hoover County Ditch and laterals, in Lake and Plain Townships. Estimated cost, $11,478. G. L. Sickafoose is County Engr.

BRYAN, OHIO.—Bids are asked by the Board of Trustees of Public Affairs, R. L. Starr, Pres., until noon, Sept. 10, for laying 6,600 lin. ft. 4-in. c.-i. water pipe and seven fire hydrants.

STAMBAUGH, MICH.—Bids are asked by the Village Council until Sept. 9 for improving water-works system. George A. Hamilton is Pres. Edmund T. Sykes, of Minneapolis, Minn., is Engr.

IVESDALE, ILL.—Bids are asked by Guy Cook, at Ivesdale, Clk. of Commissioners of Dry Fork Mutual Drainage District of Sadorus, until 2 p. m., Sept. 21, for furnishing, hauling and laying 1,550 ft. 20-in., 3,450 ft. 18-in., 1,900 ft. 16-in., 700 ft. 15-in., and 682 ft. 14-in. tile. W. J. Day, at Bement, Ill., is Engr.

FOND DU LAC, WIS.—The Common Council has awarded contract for constructing gravity intake water-works system to S. H. COLE, at about $20,000. L. A. Pettibone is City Engr.

ESTHERVILLE, IOWA.—Bids are asked by R. J. Ridley, County Audr., until 9 a. m., Sept. 12, for constructing drain No. 30. The work includes 7,860 ft. of 6 to 10-in. tile.

Bids are asked by R. J. Ridley, County Audr., until 9 a. m., Sept. 11, for constructing ditch No. 31, aggregating 25,000 ft. of tile work.

Bids are asked until 1 p. m., Sept. 11, by R. J. Ridley, County Audr., for constructing ditch No. 32, aggregating 5,760 ft. of tile work.

NEVADA, IOWA.—Bids are asked by the County Commissioners of Boone and Story Counties until noon, Sept. 6, for constructing drain No. 1.

VERNON CENTER, MINN. — A water-works system will be installed, including engine, tank and mains. Estimated cost, $8,000.

HASTINGS, MINN.—See under Sewerage.

COLERAINE, MINN.—A. G. OSMAN, of Duluth, has been awarded contract for constructing water-works and sewerage systems for $130,000. The Duluth Enginering Co. are Engrs.

CONCORDIA, KAN.—We are officially advised that Burns & McDonnell, Engrs., Dwight Bldg., Kansas City, Mo., have been engaged to prepare plans and specifications for remodeling the water-works at Concordia.

BONESTEEL, S. DAK.—The contract for constructing water-works has been awarded to C. E. HAAKINSON, of Sioux City, Iowa, for $16,000. M. P. Dowling is Town Clk.

CASSELTON, N. DAK.—A water-works and sewerage system will be constructed. C. A. Hopeman, of Moorhead, Minn., is Engr.

THERMOPOLIS, WYO.—Bids will probably be asked about Nov. 1 for constructing water-works. Estimated cost, $50,000. Fred. C. Hank is City Clk. J. B. Chessington, of Thermopolis, is Engr.

BAY CITY, TEX.—A water-works system will probably be installed. Estimated cost $18,000. J. Sutherland is Mayor.

PIERCE, TEX.—Bids are asked by A. P. Borden, executor A. P. Pierce Estate, Pierce, until Sept. 10, for constructing pumping plant to consist of two 36-in. centrifugal pumps, direct connected to cross-compound condensing Corliss engines of about 500 HP. each. Water tube boilers will be used. The plant will supply water for irrigating rice land along Colorado River.

BROWNSVILLE, TEX.—The City Council has awarded contract for constructing municipal water-works and electric light systems to the AMERICAN LIGHT & WATER CO., for $65,940.

HUDSON, COLO.—D. A. Lord, of Denver, will enlarge the Lord reservoir, near Hudson, increasing the capacity to 150,234,400 cu. ft. The water is taken from Lost Creek. Estimated cost, $19,792.

JOHNSTOWN, COLO.—The question of constructing water-works is being considered. Estimated cost, $20,000.

TACOMA, WASH.—The Board of Public Works has awarded contract for laying water mains in District No. 501, in Sixth Addition, to B. W. KIBLER for $28,730. Frank L. Davis is City Engr.

SAN DIEGO, CAL.—The Southern California Mountain Water Co., which furnishes the supply for San Diego and Coronado, has awarded contract for improvement of the system to ROBT. SHERER & CO., of Los Angeles, for about $150,000.

MONTEREY, CAL.—The Monterey County Water Co. has been incorporated with capital of $2,000,000. Principal office in San Francisco. Directors: Chas. E. Green, H. G. Platt, A. D. Shepard and others.

RICHFIELD, UTAH.—The Otter Creek Reservoir Co. has decided to construct reservoir at the Barnson and Levy Ranch in Piute County. In addition to constructing the reservoir the company will enlarge and extend the Sevier Valley Canal which will be made of sufficent capacity to carry one-half of the water to be stored. The reservoir will have capacity of storing sufficient water to irrigate at least 20,000 acres of land in Sevier County. The total estimated cost is $150,000.

BOISE, IDAHO.—The Twin Falls, Northside Land & Water Co. will let contract immediately for the next section of canals and possibly three reservoirs covering 150,000 acres. The Shoshone Falls power plant, built by the Shoshone & Twin Falls Water Power Co., has recently been completed.

SHELLEY, IDAHO.—A water-works system will be installed. Estimated cost, $8,500. Fred. C. Michelson is City Clk.

MINNEDOSA, MAN.—Water for the proposed power plant to be erected here will be obtained from Clear Lake, 30 miles north, where a dam will be constructed. E. O. Dendsen, of this city, is interested.

SEWERAGE.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Sept. 18, for constructing sewers in portions of Flatbush Ave., Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Sept. 18, for constructing sewer basins at different points on Flushing St., Boro. of Brooklyn.

WHITESBORO, N. Y.—The only bid received Aug. 19 by the Board of Village Trustees for reconstructing portion of sewerage system was submitted by G. [illegible]on & Newman, at $23.50 per lin. ft. J. Eberley is Village Clk. W. G. Stone, [illegible]ann Bldg., Utica, N. Y., is Engr.

CHEEKTOWAGA (Forks post-office), N. Y.—Bids are asked by the Town Board and Board of Highway Commissioners until 4 p. m., Sept. 7, for constructing sewerage system. Edward S. Smith, Town Clk. George C. Diehl, 575 Ellicott Square Bldg., Buffalo, N. Y., is Engr.

CAMDEN, N. J.—Bids are asked until Sept. 9 by the Board of Freeholders, Geo. W. Whyte, Chn., for constructing stone and brick culvert on Church Run, Delaware Township.

ASBURY PARK, N. J.—The Department of Water and Sewers, John L. Coffin, Supt., has awarded contract for constructing sewers to A. B. MARSDEN & CO., 21 W. [illegible] St., Utica, N. Y., as follows: Lake Ave. sewer, $6,750; ocean outlet, $4,900; other sewers, about ten miles in length, $33,835. Niart Rogers is City Engr.

DUNMORE (Scranton post-office), PA.—The Council has awarded contract for constructing sewers in Apple, Andrew and Harper Sts. to O'BOYLE BROS, the only bidders, at $3,487.

RUTHERFORD, PA.—See under Light and Power Plants.

PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Dept. Pub. Wks., until Sept. 17 for constructing sewer connecting Upper Roxborough, as per contract No. 132.

*CANTON, MISS.—Bids are asked until 8 p. m., Sept. 19, by the Mayor and Board of Aldermen for constructing a system of house sewers, about seven miles in length. The pipe used will be six to eight inches in diameter. O. S. Miller is Mayor.

*PADUCAH, KY.—Bids are asked by the Board of Public Works until 3 p. m., Oct. 1, for constructing about 14 miles of 6-in. vitrified pipe sewer laterals, ranging in depth from six to twelve feet. L. A. Washington is City Engr.

PAULDING, OHIO.—The Council has decided to construct sewer in Jackson St.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Callow, Secy., until noon, Sept. 11, for constructing sewers and culverts in various streets. W. J. Carter is City Engr.

PHILLIPSBURG, OHIO.—A sewerage system will probably be installed.

PORT CLINTON, OHIO.—The Council has let contract for constructing sewers to FRANK RICHARDSON, of this city, for $5,643.

DELAWARE, OHIO.—Bids are asked by the Board of Trustees of the Girls' Industrial Home, Delaware, T. F. Dye, Secy., until 6 p. m., Sept. 27, for constructing sewage disposal plant and connections.

ZANESVILLE, OHIO.—Bids are asked by the Board of Public Service until noon, Sept. 9, for constructing sewer in Seventh Ward. E. H. Smith is City Engr.

EVANSVILLE, IND.—The Board of Public Works, Walter F. Wunderlich, Clk., has awarded contract for constructing sewage disposal plant to the SCARBOROUGH-DAVIS CO., of Evansville. James D. Saunder is City Engr.

HUNTINGTON, IND.—Bids are asked by the Common Council until 8 p. m., Sept. 10, for constructing sewer in Market St. and Grayston Ave. J. B. Vernon is City Engr.

DECATUR, IND.—Bids are asked by the Common Council until 7 p. m., Sept. 6, for constructing the Myrtle Chronister sewer. Carl O. France is City Clk.

SOUTH BEND, IND.—Bids will soon be asked by the Board of Public Works for constructing sewers in Cherry St. and Notre Dame Ave.

COLLINSVILLE, ILL.—We are officially advised that contract for constructing sewers in this town has been let to JOHNSON & CO., Collinsville, at $18,831. Other bidders were John Hamm, Litchfield, Ill., $20,700; Staultz & Gass, Belleville, Ill., $18,875; Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

GALESBURG, ILL.—Bids are being received by J. L. Phillips, Chicago, Burlington & Quincy R. R. Bldg. Inspector, 828 North Prairie St., for laying about 2,800 lin. ft. 8-in. sewer at tie plant.

CHICAGO, ILL.—Bids are asked by the Department of Public Works, John J. Hanberg, Comr., until 11 a. m., Sept. 11, for constructing 6½-ft. sewer in 35th St. extended and the Illinois Central right-of-way.

PEKIN, ILL.—The Board of Local Improvements has awarded contract to E. R. HARDING, of Racine, Wis., for constructing sewer system, at $113,977.

BOURBONNAIS (Kankakee post-office), ILL.—HARRY McMULLEN has been awarded contract for constructing the Union District drainage sewers of Bourbonnais, for $4,500.

EAU CLAIRE, WIS.—Plans are being prepared for constructing sewers in Grand Ave. and East, Chestnut and Babcock Sts.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works until 11 a. m., Sept. 13, for construction of 12-in. vitrified clay pipe sewer in Capital Ave., from 18th to 19th Sts., about 652 ft. in length. George D. Dobson is City Engr.

DES MOINES, IOWA.—The Board of Public Works has awarded contract to the GEORGE M. KING CONSTRUCTION CO. for constructing the Center Drive sewer system for $21,[illegible]. The system includes about 16,000 lin. ft. sewers and septic tank. George D. Dobson is City Engr.

TWO HARBORS, MINN.—Bids are asked until 8 p. m. Sept. 9, for constructing sewerage system in North and East Two Harbors. Estimated cost, $40,000.

COLERAINE, MINN.—See under Water Supply—Irrigation.

HASTINGS, MINN.—The contract for constructing sewerage and water-works systems has been awarded to the DES MOINES BRIDGE & IRON WORKS, of Des Moines, Iowa, for $[illegible],475. Charles Hankes is City Clk.

OMAHA, NEB.—The following bids have been received for constructing Izard St. sewer: People's Construction Co., Davenport, Iowa, on brick work, $138,606; solid concrete, $135,210; radial block, $128,794; James Jensen, Omaha, brick, $123,505; G. W. Craig & Co., Omaha, reinforced concrete, $184,941. Andrew Rosewater is City Engr.

GROTON, S. DAK.—Bids are asked by F. E. Bandmere, City Audr., until 8 p. m., Sept. 11, for constructing about 2,568 lin. ft. of sewers.

CASSELTON, N. DAK.—See under Water Supply—Irrigation.

LEWISTOWN, MONT.—The City Council has awarded contract for constructing cement pipe sewers to N. J. LITTLEJOHN, of this city, for $13,496. M. D. Kimball is City Clk.

EXCELSIOR SPRINGS, MO.—Bids will soon be asked by the City Council for constructing sewers in Districts Nos. 21 and 38. Estimated cost, $4,378.

FAYETTEVILLE, ARK.—We are officially informed that contract has been let to C. W. WATSON & CO., at $71,377, for constructing sewers in Fayetteville. Other bidders were: McIlroy, Reese & Co., Fayetteville, $83,750; W. F. Hall, Clinton, Mo., $74,469; J. O. Severens, Guthrie, Okla., $74,699. Burns & McDonnell, Engrs., Dwight Bldg., Kansas City, Mo., prepared the plans.

ALAMOSA, COLO.—Plans are being prepared by B. D. Critchlow for constructing sewerage system.

LINCOLN, CAL.—The Board of Town Trustees has awarded contract for constructing sewerage system to DOWNING & SONS, of Palo Alto, Cal., for $17,342.

MULLAN, IDAHO.—The question of constructing sewers is being considered.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked by W. Bensel, Comr. of Street Cleaning, until noon, Sept. 11, for furnishing and delivering 50 street sweeping machines.

BALTIMORE, MD.—The contract for removal by scow or lighter and final disposition of street sweepings and other refuse has been awarded by the Board of Awards, J. Barry Mahool, Pres., to the ACME SAND CO., at 30 cts. per cu. yd.

EVANSVILLE, IND.—The Board of Public Works has decided, it is reported, to award contract to the ST. LOUIS GARBAGE BOX CO. for constructing night soil consuming plant. Estimated cost, $40,000.

FT. BENJAMIN HARRISON (Lawrence post-office), IND. — Bids are asked until Sept. 13 by Geo. H. Penrose, Q. M., for constructing garbage crematory at this post.

SEATTLE, WASH.—A bid has been received from Babcox & Wheeler, at $3,770, for furnishing boilers for the garbage crematory at Boren and Valley Sts.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Sept. 11, for regulating, grading, paving, etc., portions of various streets, Boro. of Brooklyn.

ROCHESTER, N. Y.—The Board of Contract and Supply has awarded contracts for paving as follows: WHITMORE, RAUBER & VICINUS, 279 South Ave., Rochester, paving Atlantic Ave., $10,491, and Culver Road grading, $6,544; and to JULIUS FRIEDRICH, 29 Frederick Park, Rochester, paving, at $11,665. Edwin A. Fisher is City Engr.

WEST SENECA (Buffalo post-office), N. Y.—The Stony Point Land Co. and other owners of property on Ridge Road have awarded contract for constructing two miles of concrete sidewalks to the CRESCENT PAVING CO., of Buffalo.

PALISADES PARK, N. J.—Bids are asked by the Borough Council until 8.30 p. m., Sept. 12 for grading and macadamizing portions of Edsall Boulevard and Brinkerhoff Ave. E. R. Davis is Boro. Clk. Lemuel Lozier, Bank Bldg., Hackensack, N. J., is Boro. Engr.

WILDWOOD, N. J.—The contract for laying 40,000 sq. yds. macadam pavement with cement gutters has been awarded to GEORGE W. BANKS, of Wildwood. Evan G. Slaughter is Chn. Street Com.

ORANGE, N. J.—Bids are asked until Sept. 9 by Edwd. Cheetham, Chn. Com. on Streets, for macadamizing, curbing and flagging portion of Tremont Ave.

WASHINGTON, PA.—The W. E. HOWLEY CONSTRUCTION CO., of Pittsburg, has been awarded contracts for extending Finleyville Road about three miles and constructing macadam road from West Middletown to the Hamilton pumping station, about two miles. The combined contracts amount to $51,500.

PITTSBURG, PA.—The County Commissioners have awarded contract for constructing road between Homestead and Duquesne, about 5½ miles in length, to FOLEY BROS. & CO., for $99,033. BOOTH & FLINN secured contract for improving 1¾ miles of the Perrysville road for $31,872.

*YORK, PA.—Bids are being received by the York Street Ry. Co., at York, for furnishing within one month 250,000 paving brick, f. o. b. Hanover, Pa.

WASHINGTON, D. C.—The lowest bid received Sept. 3 by the District Commissioners for grading Albemarle St., was submitted by E. G. Gummel, 300 Rhode Island Ave., Washington, at 44 cts. per cu. yd.

LONACONING, MD.—Bids are asked by the Board of County Commissioners, Clinton Uhl, Chn., until Sept. 6 for improving road between Lonaconing and Midland.

MANASSAS, VA.—The city will macadamize streets, etc.

JACKSONVILLE, FLA.—The Board of Public Works has let contract for paving Adams St., between Stuart St. and Myrtle Ave., to the GEORGIA ENGINEERING CO., of Augusta, Ga., Frank R. Clark, Pres., at $1.69 per sq. yd. The work includes about 6,060 sq. yds. paving with vitrified brick or block, 2,576 lin. ft. stone curbing and ten circular cornerstones.

LENOIR CITY, TENN.—MORELAND & MOSES, Knoxville, Tenn., have been awarded contract to construct 3,000 lin. ft. of concrete sidewalks.

KENT, OHIO.—Bids are asked by T. A. McMahon, City Clk., until Sept. 7 for laying 9,247 sq. yds. block paving, 4,041 lin. ft. straight curb, 207 lin. ft. circular curb, etc.

TOLEDO, OHIO.—The following bids have been received by the Board of Public Service for paving Phillips Ave. with (a) concrete base, (b) stone base: Garrigan Bros., (a) $42,549, (b) $36,137; Ohio Paving Co., (a) $51,117, (b) $44,265; John McMahon, (a) $41,972, (b) $35,569, and H. P. Streicher Co., (a) $37,642, (b) $31,551. Frank I. Consaul is Ch. Engr., Bd. Pub. Service.

Bids have been received by the Board of Public Service for repaving portion of Norwood Ave. as follows: Ohio Paving Co., vitrified brick with grout filler, $19,719; asphalt filler, $21,564. James Sheehan, Big Four vitrified brick, grout filler, $20,876; asphalt filler, $22,073. Cleveland Trinidad Paving Co., asphalt over whole street, $23,585; with brick between street car rails, $21,585. Henry P. Streicher, bitulithic, $28,879.

TOLEDO, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., Sept. 9, for repairing the Holland Stone Road. D. T. Davies, Jr., is County Audr.

MARYSVILLE, OHIO.—The City Council has let contract for paving portion of Plum St. to WELSH & JONES, at $12,393.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, Sept. 18, for grading, paving, etc., Grant St. and Burnett Ave. Estimated costs, $4,679 and $7,853, respectively. C. N. Dannenhower is City Engr.

Bids are asked by the Board of Public Service until noon, Sept. 19, for grading, paving, etc., portions of Saturn, Flora and Bank Sts., and Burnett and Ludlow Aves. Estimated costs, $4,841, $10,349, $28,168, $81,434 and $56,978, respectively.

CINCINNATI, OHIO.—Bids are asked by the Board of County Commissioners, Fred. Dreihs, Clk., until noon, Sept. 20, for improving Montgomery Pike.

WAUSEON, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., Sept. 13, for grading road in German Township. J. E. Merrill is County Audr.

CLEVELAND HEIGHTS (Cleveland post-office), OHIO.—Bids are asked by Wm. G. Phare, Village Clk., until noon, Sept. 10, for grading, paving, etc., portion of Lee Road. The F. A. Pease Engineering Co., 931 Williamson Bldg., Cleveland, are Engrs.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Sept. 14, for repairing portion of Euclid Road in Euclid Township. A. B. Lea is County Engr.

Bids are asked by the Board of County Commissioners until 11 a. m., Sept. 21, for furnishing material and repairing Wooster Pike, in Middleburg and Strongsville Townships. The approximate quantities are as follows: 750 cu. yds. bank sand; 150,000 4-in. brick; 800 cu. yds. 2-in. crushed stone or slag, and 325 bbls. Portland cement.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Sept. 11, for repairing portion of Berea Road.

LOGANSPORT, IND.—Bids are asked by the Board of Public Works until 10 a. m., Sept. 17, for grading, paving, etc., portions of seven streets.

ELKHART, IND.—The contract for macadamizing Grove, West Lexington and East Beardsley Aves. has been awarded to W. W. HATCH & SONS CO., of Goshen.

SOUTH BEND, IND.—Bids are asked by the Board of Public Works until 10 a. m., Sept. 10, for paving, curbing and constructing cement sidewalks in St. Peter's St.

SOUTH BEND, IND.—Bids will soon be asked by the Board of Public Works for paving portions of various streets with brick, etc. Alonzo J. Hammond is City Engr.

COLUMBUS, IND.—Bids will soon be asked by the Board of County Commissioners for constructing three gravel roads in Wayne Township, aggregating 5½ miles in length.

PERU, IND.—Bids are asked by the County Commissioners until Sept. 14 for grading, draining and paving 23½ miles of gravel roads in Richland Township. Estimated cost, $40,000. Charles Griswold is County Audr.

INDIANAPOLIS, IND.—Bids are asked until Sept. 6 by the Board of Street and Water Commissioners, Geo. T. Bouon, Chn., for paving portion of Meridian St. with creosoted wooden blocks, and paving with asphalt portion of Arsenal Ave. Blaine H. Miller is City Engr.

DECATUR, IND.—Bids are asked by the Common Council until 7 p. m., Sept. 6, for constructing sidewalks. Carl O. France is City Clk.

WABASH, IND.—Bids are asked by the Common Council until 6 p. m., Sept. 9, for constructing cement sidewalks on portion of Elm St. Fremont McLees is City Clk.

TERRE HAUTE, IND.—Bids are asked by the Board of County Commissioners until 11 a. m., Sept. 7, for grading and paving with cinders Stuthard Road in Nevins Township, a distance of about 2½ miles. Jerome W. Denehie is County Audr.

ST. JOSEPH, MICH.—Bids are asked by Harry L. Murphy, City Clk., until 5 p. m., Sept. 18, for grading and paving portions of Main St. and Niles Ave.

LAKE FOREST, ILL.—JAMES CAPE & SONS, of Racine, Wis., have been awarded contract for laying about one mile of 18-ft. macadam pavement, at $12,858.

JANESVILLE, WIS.—Bids are asked by the Street Assessment Committee, S. B. Heddles, Chn., until 2 p. m., Sept. 6, for paving Lincoln School and City Hall Alleys and portion of East Milwaukee St. The work consists of approximately 4,182 sq. yds. brick pavement. C. V. Kerch is City Engr.

WEST ALLIS, WIS.—Bids are asked by the Acting Board of Public Works until noon, Sept. 6, for grading, macadamizing, etc., portion of National Ave.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works until 1 p. m., Sept. 16, for grading, etc., East 18th and Brooks Sts. George D. Dobson is City Engr.

IOWA CITY, IOWA.—The following paving contracts have been awarded: WILLIAM HORRABIN, of Iowa City, paving East Burlington, Van Buren and Bowery Sts., with Purington-Galesburg brick, at $25,065. Mike Ford, of Cedar Rapids, submitted bid of $25,224, using Des Moines brick. LEHMAN & BRADLEY, of Iowa City, paving Johnson St. with Oskaloosa brick, $11,121. Bids were also received from Mike Ford, $12,285, and William Horrabin, $11,347. LEHMAN & BRADLEY also secured contract for laying macadam pavement on Brown St., for $2,324.

ST. PAUL, MINN.—Bids are asked by the Board of County Commissioners until Sept. 6 for improving Larpenteur Ave. Edward G. Krahmer is County Audr.

GREAT FALLS, MONT.—The contract for paving Central Ave. with creosoted blocks has been let to the KETTLE RIVER QUARRIES CO., of Minneapolis, Minn., for $56,958. C. W. Swearingen is City Engr.

KANSAS CITY, MO.—The County Court has awarded contract for macadazing 4½ miles of road from Blue Springs to Tarsney to DAVIDSON BROS., for $19,760.

SEATTLE, WASH.—E. J. THOMSON & CO. have been awarded contract for laying cement walks on Eighth Ave. West, for $3,756. R. H. Thomson is City Engr.

TACOMA, WASH.—The Board of Public Works has awarded contract for street grading in Badgerow addition to W. H. HICKER for $9,299. P. J. CONCANNON secured the contract for grading South 28th St., from Alaska to M Sts., for $3,000. Frank L. Davis is City Engr.

CHEHALIS, WASH.—The Council has awarded contract to P. E. McHUGH, of Tacoma, for laying vitrified brick pavement on Market St., for $45,860. Bids were also received from Ernest Lister and Frank Keasal, both of Tacoma, at $46,110 and $46,500, respectively.

The Council has decided to pave two blocks of Chehalis Ave. with brick, hassam or asphalt pavement. Estimated cost, $15,000.

SALEM, ORE.—The contract for paving Court St. has been let to the WARREN CONSTRUCTION CO., of Portland, Ore., for $21,915. W. A. Moores is City Recorder.

KEELER, CAL.—Bids have been received by the Board of County Supervisors for constructing 2½ miles of mountain wagon road from Keeler to Skidoo. A. M. Strong is County Surv.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

CHESTER, MASS.—The Hamilton Emery & Corundum Co., Chester, manufacturer of pure Turkish and Naxos emery, is to build a brick and stone addition to its mill, 40 × 125 ft. This will enable the company to double its present output. It is expected that the mill will be in full operation Dec. 1.

BOSTON, MASS.—Joseph Gahm & Son, 125 Purchase St., will erect a storage plant, costing $117,000 at Boston, plans for which have been prepared by Kirchhoff & Rose, of Milwaukee, Wis. It will be of brick and concrete, 105 × 155 ft., and two and three stories high. The cost, it is stated, does not include any machinery which will be installed in the building.

WEST ALBANY, N. Y.—We are officially advised that the New York Central & Hudson River R. R. Co. will erect boiler, tender and tender truck shop, 125 × 430 ft., at West Albany. It will be 1-story high, with 2-story wing, fireproof, with slow-burning roof purlins and covering. Brick walls, steel roof trusses, concrete floor, plank roof with composition roofing, plumbing fixtures and fan blower heating system and electric lighting. Steel contract awarded to LEWIS F. SHOEMAKER & CO., 45 Broadway, New York. General contractors, R. RICHARDS & SON, Utica, N. Y. Reed & Stem, 5 East 42d St., New York, are Archs.

CARPENTERSVILLE, N. J.—The Taylor Engineering Co., 2 Rector St., New York, is preparing plans for a cement plant, at Carpentersville, for the National Cement Co., 1 Wall St., New York. Cost, $750,000.

CAMDEN, N. J.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, have let contracts to the J. S. ROGERS CO., of Stanwicks, N. J., for additions, costing $200,000, to the plant of the Victor Talking Machine Co., in Camden. The plans provide a 1-story and basement building, 92 × 174 ft., with foundations of sufficient strength for five additional stories. There will be a 6-story addition also, 80 × 178 ft. Both buildings will be of brick and stone, with reinforced concrete floors, columns and roof.

JEANNETTE, PA.—F. E. Gatterdam, Arch., 163 Randolph St., Chicago, is preparing plans for a brewery, bottling house, office and stable, at Jeannette, for the International Brewing Co., of that place. Brewery to be five stories high, 115 × 175 ft., built of press brick, with stone trimmings and steel construction, concrete and asphalt floors, structural steel and iron. Annual capacity, 75,000 bbls. Cost, about $400,000.

BELLE VERNON, PA.—The American Window Glass Co. has decided to rebuild its plant at Belle Vernon, recently destroyed by fire. Considerable new machinery will be needed for the new plant.

PITTSBURG, PA.—The RITER-CONLEY MFG. CO., 55 Water St., Pittsburg, has secured contract for the erection of a steel building, 80 × 250 ft., two stories high, for the Pittsburg Waste Co., 3125 Penn St., at Swissvale, Pittsburg. Westinghouse motors will be installed in the new building.

NEW BRIGHTON, PA.—The Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburg, is erecting a large addition to its plant at New Brighton, Pa.

PHILADELPHIA, PA.—Cramp & Co., Commonwealth Bldg., have been granted a permit to erect a 3-story and basement brick manufacturing building for the Henry H. Sheip Mfg. Co., at the corner of Sixth St. and Columbia Ave. The building will measure 120.6 × 96 ft., and will be of brick and reinforced concrete construction. The cost will be $80,000. Ballinger & Perrot, 1200 Chestnut St., and Heacock & Hokanson, 931 Chestnut St., drew the plans.

LYNCHBURG, VA.—The Glamorgan Pipe & Foundry Co. has secured permit to erect brick and concrete addition to foundry building costing $4,800 and for steel and iron sheds, with iron roof, costing $1,500.

NORFOLK, VA.—Press reports say that Edward S. Cramp, associated with George W. Norris, of the banking firm of Edward L. Smith & Co., 511 Chestnut St., Philadelphia, has paid $95,000 for 1,000 ft. frontage on the main harbor in this city, and will begin immediately the construction of a shipbuilding plant. In addition to doing all kinds of repair work, the plant, which will have a working capital of $500,000, will be constructed on such a scale as to be in a position to make bids for the construction of the largest type of battleship. Edward S. Cramp will be president of the concern.

LYNCHBURG, VA.—It is reported that the Southern Ry. Co. will build shops for repairing motive and rolling stock on the Washington and Danville division and yard with a capacity of 4,000 cars near Montview. D. W. Lum, Washington, D. C., is Ch. Engr.

CUMBERLAND, N. C.—It is reported that a 5,000-spindle mill is to be erected at Cumberland for J. Fred. Houston & Co., Provident Bldg., Philadelphia. It will be of brick, one story, 75 × 350 ft., and will double the present plant. A sprinkler system will be installed. Water power is used. It is expected that the new building will be ready to operate by next February. About $20,000 has been expended on recent improvements.

GAFFNEY, S. C.—The management of Merrimac Mills has awarded contract to J. M. CURRY for erection of buildings for proposed plant. This company was organized last month with $150,000 capital stock to build 10,000-spindle yarn mill. W. C. Hamrick is Pres. and Treas.

WOODRUFF, S. C.—The owners of the Gray Yarn Mills, W. H. Gray, Pres., have decided on erection of 3-story mill building, 75 × 325 ft., to be equipped with 10,000 spindles and complementary apparatus for manufacturing Nos. 20 to 30 cotton yarn. Contract has been awarded to C. R. WILLARD & CO., of Spartanburg, S. C., for construction of dam to develop power for operating the mill, and probably the energy will be transmitted by electricity. J. E. Sirrine, of Greenville, S. C., is Arch. and Engr.-in-Charge.

ANDERSON, S. C.—The Anderson Ice Co. will erect ice plant adjoining present factory, increasing output from 25 to 50 tons. It is proposed to install plate plant which will freeze blocks of ice of 2,000 lbs., and to operate plant by electricity. About $20,000 will be expended. The old factory will be operated as an auxiliary plant.

ATLANTA, GA.—Piedmont Slate & Cement Co., Austell Bldg., is arranging for establishment of lime kilns and Portland cement plant on Seaboard Air Line Ry. E. C. Lester is Pres. G. A. Beattie, is Vice-Pres. and Gen. Mgr.

FLORENCE, ALA.—B. B. Cohen, Pres. Sheffield Stove & Foundry Co., Sheffield, Ala., will establish stove works in Florence, according to press reports.

MERIDIAN, MISS.—The Mobile & Ohio R. R. Co. has awarded contract to JETT BROS. CONTRACTING CO., Mobile, Ala., for construction of 17-stall roundhouse, machine shop and office building, to cost about $30,000. George S. McKee, Mobile, is Supt. of Motive Power.

CHATTANOOGA, TENN. — Mathis-Davis Hosiery Mills, it is reported, will expend about $50,000 for general improvements, including the installation of a dyeing and finishing plant. Ralph Bell is Supt.

NEWPORT, KY.—The Higgin Mfg. Co., manufacturer of metal-frame window screens and carriage trimmings, will increase its present floor space by erection of addition to plant, 87 × 67 ft.; three stories high.

BROWNSVILLE, KY.—Brownsville Canning Co. will establish fruit-canning factory at cost of $5,000, with a capacity of 8,000 cans daily. Giles Vincent and John A. Tryon are interested.

DAYTON, OHIO.—We are officially informed that the American Railways Co., of Philadelphia, has secured property in Dayton, O.,

and is about to build new car barns and repair shops for the Peoples' Railway Co. Dodge & Day, Engrs. and Constructors, of Philadelphia, have been commissioned to draw up plans for the construction of the buildings.

CINCINNATI, OHIO.—The Kroger Grocery & Baking Co. will erect a 3-story concrete bakery and canning building at Florence Ave. and Des Moines St., to cost $80,000.

NILES, OHIO.—The Niles Corrugating Co., Niles, manufacturer of black and galvanized sheets, corrugated iron and steel roofing, will increase its galvanizing and corrugating departments by erecting new buildings and adding new equipment.

EVANSVILLE, IND.—The Indiana Oil Refining Co. has ordered plans and will construct a plant soon in this city. Thomas Lower, of Vincennes, is in charge.

ROCKFORD, ILL.—Redin Ekstrom & Co., it is reported, have secured a site on Railroad Ave. and Parmele St. on which it is proposed erecting a machine shop.

CAPE GIRARDEAU, MO.—Widmann & Walsh, Archs., Wainwright Bldg., St. Louis, have prepared plans for a 4-story addition to brewery at Cape Girardeau for Max Koeck, Mgr. Cost, $150,000.

SPRINGFIELD, MO.—The St. Louis & San Francisco R. R. Co. is arranging for construction of proposed car and locomotive shops, concentrating at Springfield all car building and repairing. The structures will be completed by March 1. Buildings, according to press reports, will include machinery and erecting shop, 566 × 173 ft.; erecting forge shop, 245 × 102 ft.; boiler and tank shop, 344 × 117 ft.; coach shop, 303 × 207 ft.; paint shop, 183 × 182 ft., and power-house, 117 × 160 ft. An 80-ft. transfer table will be installed, with a 1,338-ft. runway, operated by third-rail electric system; running capacity, 800 ft. per minute. The erecting shop will contain 25 pits, and capacity may be increased at any time 300%. In erecting bay will be a 100-ton and a 15-ton crane, and in heavy-machinery bay a 10-ton crane. The boiler shop will be equipped with 30 and 10-ton cranes, and six boilers with combined 2,400 HP. The stack will be constructed of reinforced concrete, 200 ft. high, with an inside diameter of 10 ft. For transferring machinery, material and cars from building to building will be a 10-ton crane in the open, to have a 70-ft. span and operate on a 700-ft. runway. Foundations of all buildings will be of reinforced concrete, and are nearing completion. The storehouse will be constructed of reinforced concrete, and all other structures of steel and brick. Electricity will be used for power. Plant is the property of the Frisco Car & Engine Co., controlled by the St. Louis & San Francisco R. R. Co. About 600 men will be employed. Contract has been awarded to the ARNOLD CO., 181 La Salle St., Chicago, Ill.

CORNERSTONE, ARK.—The Cypress Lumber Co., recently incorporated, will establish a plant for production of cypress lumber; daily capacity, 10,000 ft. Buildings 20 × 20, 12 × 18 and 12 × 12 ft., will be erected. J. W. Rowland is Pres.; John W. Webster, Vice-Pres.; W. A. Murray, Secy.; R. S. Finney, Mgr.

FORT SMITH, ARK.—S. Caldarera and associates will erect combined cold storage plant and packing-house, it is stated. The structure probably will be two stories high, of brick and stone construction. Complete ice plant will be installed to suppply ice for refrigerator cars during fruit and berry season.

HILLSBORO, TEX.—An addition of 2,500 spindles and 36 looms is to be made to the equipment of the Hillsboro Cotton Mills of Hillsboro. This about doubles the present number of spindles and looms. A cotton warehouse and twelve operatives' Cottages are to be erected. About $50,000 will be expended on the improvements.

GUTHRIE, OKLA.—The Imperial Press Steel & Engineering Co. has been incorporated with $125,000 capital stock by G. V. Pattison, Guthrie; Ernest F. Woodward and Chas. H. Meyers, Allegheny City, Pa., and others.

RENTON, WASH.—The Seattle Car Mfg. Co., whose plant at Youngstown was recently destroyed by fire, will move to this town, it is reported, and will begin the erection of a new plant to cost $250,000 at once.

SEATTLE, WASH.—The Seattle Mattress & Upholstering Co., 913 First Ave. S., is reported to be having plans prepared by Schack & Huntington, for six buildings to be erected on Sixth Ave. S. and Holgate St. The plans include a warehouse and store-room 58 × 180 ft., four stories high, and having a foundation solid enough to support two additional stories should they be necessary. The walls of this building are to be constructed with reinforced concrete and the interior work is to be of mill construction. The plans provide for erection of two other buildings, each 55 × 108 ft., to be used for factory purposes exclusively. In these will be located the workshops and the other machinery necessary in the business. They will be four stories high, of frame construction, built of milled timber throughout. There is also to be an engine room 32 × 100 ft.; also a dry kiln. The factory is to be fitted throughout with automatic sprinklers. The architects' estimate of the cost of the plant, exclusive of the machinery, is $69,000.

SEATTLE, WASH.—The Seattle Mattress & Upholstering Manufacturing Co. will erect six large buildings on a site 170 × 280 ft., on Sixth Ave. South, between Holgate and Massachusetts Sts. Schack & Huntington are Archs, Downs Block, Seattle.

EDMONTON, ALTA.—The Railway Paint Co., of New York, will erect a $100,000 plant here, arrangements for which are now being made.

VANCOUVER, B. C.—C. P. Hill, Mgr. of the Hillcrest coal mines of Alberta, is reported to have stated that the construction of a blast furnace for the manufacture of iron and steel will be commenced soon near Kootenay Landing. The cost of the plant will be about $2,500,000.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DRAINS.—Mason City, Iowa.—Bids are asked until Sept. 11 by A. S. Clark, Co. Audr., for constructing tile drains in Dists. No. 3 and 61.

WHARF.—Savannah, Ga. — Granger & Lewis will build a lumber wharf on Hutchinson's Island, it is reported, which will cost about $100,000.

LUMBER.—New York, N. Y. — Bids are asked until noon, Sept. 11, by W. Bensel, Comr. St. Cleaning, for furnishing and delivering lumber.

BULKHEAD.—Oakland, Cal.—Bids are asked until 10. a. m., Sept. 10, by the Board of Supervisors, for the construction of a concrete bulkhead.

SMELTER.—Vancouver, B. C.—James A. Moore and other capitalists of Seattle, Wash., may erect a large electric smelter here for the treatment of iron ores.

*WHARF.—Delaware City, Del.—Bids are asked until 11 a. m., Sept. 26, by Capt. J. L. Knowlton, Constr. Q. M., for reconstructing freight wharf at Fort du Pont.

*SNAG-BOAT.—Mobile, Ala.—Bids are asked until 11 a. m., Oct. 1, by Maj. H. Jervey, Corps Engrs., U. S. A., for construction of a wooden hull stern-wheel snag-boat.

*BREAKWATER.—Oyster Bay, N. Y.—Bids are asked until noon, Sept. 11, by W. Emlen Roosevelt, 33 Wall St., New York, for construction of a stone breakwater in Oyster Bay Harbor.

CONCRETE DAM. — Indianapolis, Ind.—The city Park Board is asking for bids for extensive repairs on the Riverside concrete dams. Estimated cost, $10,000. J. Clyde Power, Supt.

*DREDGING, ETC.—New York, N. Y.—Bids are asked until noon, Sept. 30, by Col. John G. D. Knight, Corps Engrs., U. S. A., for dredging and removing rock in Saugerties Harbor, N. Y.

*DREDGE.—Cincinnati, Ohio.—Bids are asked until 2 p. m., Sept. 30, by Maj. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, for constructing dredge. W. H. McAlpine, Frankfort, Ky., is Asst. Engr.

*JETTIES.—Cold Springs, N. J.—Bids are asked until 11 a. m., Oct. 3, by C. A. F. Flagler, Corps Engrs., U. S. A., for constructing stone jetties, involving about 285,000 tons of stone, Cold Springs Inlet, N. J.

*LOCKS AND DAMS.—Mobile, Ala.—Bids are asked by Maj. H. Jervey, Corps Engrs. U. S. A., until 11 a. m., Oct. 5, for building locks and dams Nos. 2 and 3 and lock-tender's house, Tombigbee River, Ala.

CANAL.—Houston, Tex.—A canal will be built in Harris County to connect Brays Bayou and Buffalo Bayou. Estimated cost, $15,000. Geo. T. Horton is County Engr., Houston. Right-of-way is being secured.

BREAKWATER.—Key West, Fla.—The Superivising Architect of the Treasury, Washington, has rejected as in excess of the appropriation, all bids received for the construction of a breakwater at Key West, Fla.

BREAKWATER.—Tancook Island, N. S.—Bids are asked until Sept. 18 by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, Ont., for the construction of a breakwater at Tancook Island, Lunenburg County, Nova Scotia.

TUNNEL.—Wallace, Idaho.—Contract for driving 200 ft. of tunnel on the property of the Idaho-Los Angeles Mining Co. has been let to WALTER McLEAN, of Wallace, who was the lowest bidder.

DRAINAGE.—Kalamazoo, Mich.—The contract for ten miles of drainage ditch near Kalamazoo has been let by the County Drain Commissioner to the WOOLMAN CONSTRUCTION CO., of Sandusky, Ohio, at $80,000.

VESSEL.—Washington, D. C.—The Light House Board, Commerce and Labor Dept., Washington, has rejected all bids received on Aug. 19 for the construction of lighthouse vessel No. 82, as in excess of the appropriation.

*DREDGE.—Philadelphia, Pa.—Bids are asked by Maj. J. C. Sanford, Corps Engrs., U. S. A., Witherspoon Bldg., Philadelphia, until 2.30 p. m., Sept. 30, for constructing a steel hull, 16-in. pump dredge for the Savannah River.

CONCRETE DITCH.—Roswell, N. Mex.—Bids will be asked by Arthur J. Stevens, Lock Box 45, Roswell, Secy. Com. of City Council and irrigation companies interested, until Sept. 18 for about 8,000 ft. of concrete ditch within the city.

STONE TESTING ROOM.—Albany, N. Y.—Bids are asked by Frederick Skene, State Engr. and Surveyor, State Hall, until noon, Sept. 10, for the construction of a stone testing room to be built under the sidewalk at the northwest corner of the State Hall.

DITCH.—Booneville, Ind.—The Commissioners of Warwick and Spencer Counties have awarded contract to the R. A. BROWN CONSTRUCTION CO. of Washington, Ind., for the construction of the Barr Creek ditch in Jackson and Pigeon Creek Townships, at $26,000.

DITCH.—Ivanhoe, Minn.—Bids are asked by R. H. Sisson, County Audr., until Sept. 12 for constructing Ditch No. 15.

The contract for constructing ditches Nos. 12, 13 and 14 at Ivanhoe (bids opened Aug. 20), has been awarded to JERRY SHERWOOD, of Litchfield, Minn., at $17,629.

SUBWAY.—Louisville, Tenn.—The Louisville & Nashville R. R. Co. has awarded the contract to build a subway of concrete near Meadow, to MORELAND & MOSES of Knoxville, Tenn. Meadow is located near Louisville, Tenn., where the grade crossing will be abandoned on the fast line and the subway built similar to others on the line.

ORDNANCE.—Washington, D. C.—Bids are asked as follows by the Bureau of Ordnance, War Dept., Washington, D. C., until noon, Sept. 7, for 15 sets forgings for three-in. rapid fire guns, model 1903; until noon, Sept. 9, for four sets of forgings for 4.7-in. siege rifles, model 1906; until noon, Sept. 20, for two disappearing gun carriages, model 1901.

PIER.—Breton Cove, N. S.—Bids are asked until Sept. 18 by Fred Gelinas, Secy. Dept. Public Works, Ottawa, Ont., for the construction of an extension to the landing pier at Breton Cove, Victoria County, Nova Scotia, according to a plan and specification to be seen at the offices of E. G. Millidge, Resident Engr., Antigonish, N. S.; and C. E. W. Dodwell, Resident Engr., Halifax, N. S.

*STONE JETTY, ETC.—Boston, Mass.—Bids are asked until 2 p. m., Sept. 6, by the Board of Harbor and Land Commissioners, Room 131, State House, Boston, for building a stone jetty and riprapping the banks of the channel, requiring about 1,800 tons of stone, about 19,000 cu. yds. excavation from channel between the jetties and removal of old timber and stone jetty. Frank W. Hodgdon is Ch. Engr.

*CHANNEL.—Newport, R. I.—Bids were received as follows on Aug. 28 by Lieut.-Col. J. H. Willard, Corps Engrs., U. S. A., for dredging entrance channel to Great Salt Pond, Block Island: Maritime Dredging Co., New York, 37½ cts. per cu. yd.; John A. Seeley, New York, 39½ cts.; J. S. Packard Dredging Co., Providence, R. I., 28½ cts.; Chas. M. Cole, Fall River, Mass., 32 cts. Estimated cost, $27,000.

JETTY.—Wilmington, Del.—Bids were received as follows by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., on Aug. 28 for jetty construction at new mouth Broadkin River: The project is in three sections. The bids on the largest section were as follows: Latta & Terry Construction Co., $20.20 per lin. ft.; Richard Parrott, $22; Tatnall-Brown Co., $25.75; Armstrong & Latta Co., $100.54; Franklin K. Wills Co., $24.50.

PROTECTION WALL.—Skaneateles, N. Y.—Two bids were received on Aug. 28, by F. C. Stevens, Supt. Public Works, for work of constructing protection on wall on west side of Skaneateles Lake outlet in village of Skaneateles, but as both were in excess of the appropriation for the work, they were rejected. The bidders were Syracuse Railroad Construction Co., Syracuse, N. Y., and Charles W. Hyatt, 603 West Onondaga St., Syracuse, N. Y. Noted on Aug. 22.

BARGE CANAL.—Albany, N. Y.—F. C. Stevens, Supt. Public Works, has awarded two additional contracts for barge canal construction work as follows, in accordance with the bids submitted on July 31. Contract No. 14 to ARTHUR W. LUCE, 100 Broadway, New York, for $2,935,763; engineer's estimate, $2,875,570; and Contract No. 35, Oswego Canal, to GILMOUR-HORTON-ALLEN CO., Sandy Hill, N. Y., for $739,261; the engineer's estimate being $752,760. For full details and itemized bids see pages 46 and 47, under Contract Prices, in issue of Aug. 8.

DERRICK, ETC.—Vancouver, B. C.—Bids are asked until Sept. 12, by F. Gourdeau, Deputy Minister of Marine & Fisheries, Ottawa, Ont., for supplying and delivering at Vancouver, B. C., a double cylinder tandem hoisting engine, winch with four hoisting drums and two winch heads, an upright steel tubular steam boiler of 30 HP. capacity anl a structural steel derrick, for the British Columbia buoy scow. Bidders must furnish plans of the boilers and engines offered. Bids for the engine, boiler, and derrick separately will be received, or for all together.

DREDGING.—Washington, D. C.—Capt. Spencer Cosby, Corps Engrs., U. S. A., has accepted the bid of the MARYLAND DREDGING CO., Baltimore, Md., for dredging 400,000 cu. yds. of soft material from the Virginia channel; 600,000 cu. yds. from the tidal reservoir; 700,000 cu. yds. from the Anacostia River, and 21,000 cu. yds. of hard material from the latter river, at a total cost of $167,700. The unit price for the Potomac work was 10 cts. per cu. yd., for the Anacostia and tidal reservoir work, 9½ cts.; and for the hard dredging, 20 cts. THOMAS BANKS, Philadelphia, received the contract for removing 780 piles from the Anacostia River, at $2.24¾ each.

OVERHAULING STEAMER.—New York, N. Y.—Bids were received as follows by Robt. W. Hebberd, Comr. Public Charities, on Aug. 26 for furnishing all the labor and materials necessary for the general overhauling and painting of the steamer "Thomas S. Brennan": James Shewan & Sons, foot East Houston St., $22,494; James Tregarthen & Son Co., foot East Seventh St., $22,400; Louis L. Bernier, 227 West St., $23,023; John F. Walsh, Jr., 137 Charlton St., $24,800; Columbia Engineering Works, Produce Exchange Annex, $31,600; Monad Engineering Co., 147 Cedar St., $29,000; Driscoll & Spencer, $28,000; Shooter's Island Shipyard Co., Produce Exchange Annex, $29,500.

*ROCK EXCAVATION.—Cape Porpoise, Me.—Bids were received as follows on Aug. 30, by Maj. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, Me., for rock excavation in Cape Porpoise Harbor, Me. (A) price per cu. yd.; (B) total amount; (C) commence after date of notification of approval of contract; (D) will complete after commencement: Eastern Dredging Co., Boston, Mass., (A) $9.60, (B) $50,170, (C) 15 days, (D) 360 days; Simon J. Donovan, East Boston, Mass., (A) $11.25, (B) $58,792, (C) six months, (D) two years; John J. Fitzpatrick, Plattsburg, N. Y., (A) $13.62, (B) $71,178, (C) 40 days, (D) Sept. 1, 1909; Johnston & Virden, Lewes, Del., (A) $11.65, (B) $60,883, (C) 30 days, (D) eight months.

SMELTER.—Redding, Cal.—The Electric Steel Corporation, capitalized at $1,000,000, has been incorporated for the purpose of installing an iron plant at Heroult, Shasta County, to smelt iron ores by the Heroult electric process. 150,000 shares of stock are reported to have been sold for the plant, a rail tram from the smelter to the mine and the installation of an electric plant to make the largest carbons in the world. It will be the only plant of the kind [illegible] the United States, it is said. The officers [illegible] Pres., H. H. Noble, San Francisco; Vice-[illegible] Edward D. Johnson, Redding; Secy., [illegible] H. Morgan, San Francisco. Other directors [illegible] J. Henry Meyers, E. E. Mead, Edward [illegible] Haley, San Francisco. The main office is [illegible] San Francisco.

TUNNELS.—San Francisco, [illegible] According to the Oakland "Tribune," [illegible] Krutschnitt, Vice-Pres. and Dir. of [illegible] Operation, Southern Pacific Co., [illegible] stated that plans are under [illegible] for three great tunnels, one for Portland [illegible] for Tacoma and one near Seattle. [illegible] have only recently returned from there, [illegible] Portland it is proposed to drive a 5,600 [illegible] tunnel under the little town of St. John, [illegible] bring passenger and other trains [illegible] a level grade and at some saving in [illegible] distance. At Tacoma the difficulty is that [illegible] residence part of the city is up on bluffs [illegible] 200 to 250 ft. above tidewater, while [illegible] business section is down on the level. [illegible] plan is to run a 7,800-ft. tunnel into [illegible] Seattle to save grade and distance. Another [illegible] tunnel is projected at Seattle, rather than [illegible] Seattle. But we can get both freight and passenger trains into Seattle without any tunnel."

*DREDGING.—Savannah, Ga., [illegible] were received as follows by Lieut.-Col. [illegible] Dan C. Kingman, Corps Engrs., U. S. A., [illegible] on Aug. 22, for dredging in the inner and [illegible] harbor at Brunswick, Ga.: (A) Construction Dredging Co., Norfolk, Va.; (B) P. Sanford Ross, Inc., Jersey City, N. J.; (C) Catawba Dredging Co., Baltimore, Md.: Lot No. 1 (520,000 cu. yds.), (A) 20 cts. a cu. yd.; (B) $104,000; (B) 14.8 cts., $76,960; (C) 16½ cts., $85,280. Lot No. 2 (230,000 cu. yds.): (A) 16½ cts., $37,950; (B) 17.8 cts., $40,940; (C) (no bid). Lot No. 3 (1,500,000 cu. yds.): (A) 23 cts., $345,000; (B) (no bid); (C) (no bid). Amount available with which to begin payments, $125,000. The sum of $350,000 additional remains to be appropriated under the authorization contained in the River and Harbor act of March 2, 1907. It has been recommended that the bid of P. Sanford Ross, Inc., for dredging under Lot No. 1, and the bids of the Coastwise Dredging Co. for dredging under Lots Nos. 2 and 3, be accepted.

TORPEDO BOATS.—Washington, D. C.—Bids were received as follows Sept. 3, at the office of the Secretary of the Navy, Washington, for the construction of five torpedo boat destroyers: Bath Iron Works, Bath, Me., one boat (department plans), $633,000; two, $633,300 each; company's hull and machinery (Parson's turbines), one $604,700; two, $584,300 each, 640 tons displacement. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., one boat (department's plans), $755,000; bidder's machinery (Parson's turbines), $685,000, department's hull. New York Shipbuilding Co., Camden, N. J., department hull and machinery, one, $740,000; two, $710,000 each; bidders' machinery (Parson's turbines), one, $645,000; two, $624,000. Fore River Shipbuilding Co., Quincy, Mass., one boat (department's hull), Curtis turbines, $648,000. William Cramp & Sons Shipbuilding & Engine Co., Philadelphia, department hull and bidders' machinery (Parson's turbines), one, $585,000; two, $570,000 each; alternates, one, $590,000 two, $575,000 each; one, $600,000; two, $585,000 each. Lewis Nixon, New York, on bidder's specifications throughout, gas engines, 30-knot instead of 28-knot, $650,000.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

TOOTHPICK MACHINERY. — Mayaguez, P. R.—Chas. O. Guffain, Mayaguez, P. R., writes us that he desires information relative to machinery for the manufacture of toothpicks.

SAND-LIME BRICK MACHINERY.—Canton, China.—Purnell & Paget, Architects and Engineers, Canton, China, write us that they desire quotations, c. i. f. Hong Kong, on sand-lime brick machinery.

HOISTING ENGINES.—Washington, D. C.—We are in receipt of a communication from J. C. Cobb, 3338 17th St., N. W., Washington, D. C., stating that he would like to secure names of firms manufacturing hoisting engines.

CLEANSING MACHINERY. — Deerfield, Kan.—H. F. Shepherd, Deerfield, Kan., writes us that he desires to communicate with manufacturers of machinery for use in a large clothes cleansing and pressing establishment.

MINING ENGINEERING CATALOGS.—Tuscaloosa, Ala.—The Department of Mining Engineering, University of Alabama, is soon to equip a complete coal washing plant, a briquetting plant and necessary accessories to make extensive tests on Alabama coals and desires to receive catalogs from manufacturers of mine equipment and apparatus needed for the equipment of a mining laboratory. These should be addressed to E. J. McCaustland, Tuscaloosa, Ala.

U. S. POSSESSIONS AND CUBA.

(* *denotes that this work is advertised in Engineering News.*)

LOCOMOTIVES. — Panama. — Bids were opened on Aug. 30, at the office of Maj. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for twelve 4-wheeled, narrow-gage, saddle-tank locomotives for construction service: American Locomotive Co., 111 Broadway, New York, $42,600; 75 days; "Standard" locomotive, $41,100. Burnham, Williams & Co., 500 North Broad St., Philadelphia.

$47,640; 120 days; Davenport Locomotive Works, Davenport, Iowa, (a) $36,996; (b) $37,956; 70 days; Lima Locomotive & Machine Co., Lima, Ohio, (a) $43,200; (b) $46,-800; 210 days; K. Porter Co., 1208 Union Bank Bldg., Pittsburg, Pa., $42,480; 75 days. Vulcan Iron Works, Wilkes-Barre, Pa., (a) $30,600; (b) $[illegible]; 70 days; Ernst Weiner Co., 68 Broad St., New York, $44,400; 300 days.

STEEL BARGES.—Panama.—Bids are asked until 10.30 a. m., Sept. 28, at the office of Maj. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing 12 steel barges complete, delivered on the Isthmus of Panama. They may be delivered either knock-ed down and securely packed for ocean shipment, or erected complete. The barges are to have a length of 156 ft., breadth 35 ft. depth 12 ft. Plans and specifications, under Circular No. 389, may be obtained from the Commission.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Sept. 25, at the office of David W. Ross, General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a large quantity of machinery and engineering supplies, as follows: Twelve steam shovels, type "B," dipper capacity 5 cu. yds., unit price to apply to any number of shovels, more than eight and less than 16; height from point of boom to rail, 30 ft.; height of "A" frame above rail, 19 ft. 8 ins.; clear height of lift above rail, 17 ft.; width of cut at 8-ft. elevation, 54 ft.; gage of track, 5 ft.

30 steam churn drills, drilling capacity, 150 ft. to drill 4-in. hole. One air-compressor plant, including two cross-compound steam condensing and cross-compound air compressors; two air receivers, two horizontal water-tube boilers, one steel smoke box and smokestack, distributing header and pipe bends; one duplex boiler feed pump, one exhaust head and pipe, one horizontal surface condenser, one horizontal oil separator; valves, etc.

One electric light plant, including one tandem compound engine, 150 I. HP., to be direct-connected to one direct current generator, 100 KW. capacity; two inductor motors and six 10-KW. transformers. 50 rock-drills and equipment, 3⅝-in. diameter cylinder, to bore hole 1¾ in. at bottom, 20 ft. deep; motive power, air at 100 lbs.

5,000 gross tons steel rails, 70-lb.; 30,000 steel splice bars; 17,500 tie plates; 128,000 track bolts; 560,000 lbs. track spikes; 125 frogs; 20 switches; 105 pairs switch points; 125 switch stands. 1,000 steel plates, various sizes; 6,000 lin. ft. angles; half-round iron, spring steel, stay bolt taps, hand taps, ship clamp screws, snatch blocks, molder's bellows, melting ladles. 10,000 ft. extra-heavy wrought-iron pipe, 6-in. 5,200 ft. canvas belting. 300 coils manila rope, 12,000 ft. oil well cable, manila cordage, red lead, etc.

Lumber, as follows: 115,000 cross-ties, redwood or long leaf yellow pine, hewn, 7 ins. x 9 ins. x 9 ft.; 105 sets switch ties; 4,000 untreated piles, 26 ft. to 50 ft.; bridge timber, 1,000 caps, 2,000 braces, 56,000 lin. ft. timber, long leaf yellow pine or Douglas fir.

LUMBER.—Panama.—Maj. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to D. L. GILLESPIE & CO., Pittsburg, contract at $63,260, for furnishing the following lumber: 1,800 bridge caps; 16,000 bridge ties; 1,500 guard rails; 5,500 stringers; 8,100 braces; material, Douglas fir; delivery, La Boca.

ROOFING.—Panama.—Bids are asked until 2.30 p. m., Sept. 9, by circular bulletin, at the office of Maj. H. F. Hodges, Isthmian Canal Commission, Washington, D. C., for 45,000 sheets galvanized-iron corrugated roofing and 60,000 lin. ft. galvanized-iron ridge-roll, bids for which were opened Aug. 22. The only bidder being the U. S. Steel Products Exports Co., 24 State St., New York, at $50,682, it was decided to ask for bids again.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

INTAKE DAM, TUNNEL.—Springfield, Mass.—Bids were received on Aug. 21 by the Board of Water Commissioners for Contract No. 1, intake dam and tunnel, Little River water supply. Allen Hazen, Consult. Engr., 239 Broadway, New York. Elbert E. Lochridge, Ch. Engr. The bids in detail were submitted as follows: (A) CULGIN-PACE CONTRACTING CO., 1761 Carter Ave., New York (awarded contract); (B) Bruno & Pettiti, 23 Court St., Boston; (C) N. Y. Continental-Jewell Filtration Co., New York; (D) Patrick McGovern, Boston; (E) Hugh Nawn Contracting Co., Boston; (F) T. A. Gillespie Co., New York; (G) H. E. Heningham, Thos. A. Clark and Ellis H. Baillie, New York; (H) Jules Brenchard Construction Co., Yonkers, N. Y.; (I) MacArthur Bros. & Co., New York; (J) Daniel O'Connel & Sons, Holyoke, Mass.; (K) Winston & Co., Katonah, N. Y.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
Repairing and building road (lump sum)	$10,000.00	$20,000.00	$8,500.00	$19,500.00	$10,000.00	$10,000.00	$31,898.00	$4,000.00	$9,500.00	$10,500.00	$10,000.00
12,000 cu. yds. earth excavation at Peterson's	.75	.75	1.00	.65	1.00	1.50	1.00	1.50	1.00	1.00	1.50
2,500 cu. yds. earth excavation in gorge	.50	1.50	1.10	1.00	1.40	2.50	2.50	2.00	1.25	1.50	2.00
2,500 cu. yds. rock excavation	1.20	3.50	2.40	2.50	4.00	4.00	3.00	4.00	3.50	3.00	3.50
2,000 cu. yds. excavation below grade	7.50	4.00	2.70	5.00	5.00	5.00	3.00	6.00	5.00	8.00	6.00
Care of water during construction (lump sum)	15,000.00	10,000.00	7,500.00	18,000.00	5,000.00	7,500.00	12,100.00	12,000.00	25,000.00	20,000.00	10,000.00
9,500 cu. yds. cyclopean masonry in dam	8.00	7.00	7.70	6.00	6.25	7.00	5.00	9.00	8.25	6.50	8.00
300 cu. yds. concrete masonry	7.00	10.00	15.00	10.00	12.00	30.00	12.00	10.00	10.00	9.00	12.00
200 cu. yds. rubble masonry	4.50	4.50	4.50	4.00	6.00	5.00	4.00	4.00	5.00	5.00	5.00
4,530 lin. ft. tunnel	29.00	32.00	35.14	36.00	39.00	33.00	38.58	39.50	40.00	47.00	45.00
110 tons hauling pipes, gates, etc.	5.00	3.00	6.00	14.00	3.00	12.00	4.00	5.00	12.00	3.00	10.00
Placing and refilling about steel pipe (lump sum)	800.00	1,200.00	1,800.00	1,200.00	1,400.00	3,000.00	2,250.00	4,000.00	4,000.00	3,000.00	1,500.00
15,000 lbs. steel reinforcing	.06	.15	.055	.04	.06	.10	.05	.10	.09	.07	.08
Appurtenances (lump sum)	4,000.00	5,000.00	2,000.00	3,500.00	1,500.00	2,500.00	1,934.00	3,000.00	2,500.00	3,500.00	4,000.00
Total	$269,870	$283,640	$285,160	$294,770	$295,475	$296,060	$307,780	$338,285	$341,120	$355,990	$356,000

SEWER SYSTEM.—Fayetteville, Ark.—Four bids were received by the Board of Improvements on Aug. 22 for furnishing material and constructing sewer system. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs. Contract was awarded to C. W. WATSON & CO., St. Louis, Mo., at $71,377. In detail their bid was as follows: Excavation, up to 4', 15 cts.; 4' to 6', 22 cts.; 6' to 8', 28 cts.; over 8', 45 cts.; rock, $2.50; macadam, 14 cts. a lin ft.; 8" vitrified pipe, 22 cts.; 10" vit. pipe, 29 cts.; 12" vit. pipe, 44 cts.; 15" vit. pipe, 60 cts.; 18" vit. pipe, 90 cts.; 8" cast-iron pipe, $1.10; 10" c.-i. pipe, $1.40; 12" c.-i. pipe, $2; 16" c.-i. pipe, $3; 6" on 8" Y connections, 65 cts.; 6" on 10" Y's, $1; 6" on 12" Y's, $1.50; manholes, $32; manholes, ex. ft., $4; flush-tanks, $70; lampholes, $10; extra concrete, $7; septic tank on town cr., or on M. No. 4, $3,000; filter on town cr. or on M. No. 4, $1,500; excavation, tank and filters, 50 cts.; special bridges, $200.

SEWER.—Brooklyn, N. Y.—Bids were received by Bird S. Coler, Pres. Boro. Brooklyn, on Aug. 28, for furnishing all the labor and material required for constructing sewer in Scott Ave., from Newtown Creek, north of Metropolitan Ave., to St. Nicholas Ave., etc. (Section I.). The bidders and bids in detail were as follows: (A) Henry Newman, 215 Montague St., Brooklyn; (B) James H. Holmes, 87 Nassau St., New York; (C) Flick-Litchfield Construction Co.; (D) Rogers & Haggerty, 21 Park Row; (E) M. C. Madson, Flushing Ave., Brooklyn; (F) John J. Creem, 899 Greene Ave., Brooklyn; (G) Borough Construction Co., 44 Court St., Brooklyn; (H) Charles Cranford, Foster Ave., Brooklyn; (J) Jenks-Asserson Construction Co., 69 Pearl St., New York:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)
2,946 lin. ft. 180" circular sewer	$63.00	$82.00	$64.92	$87.17	$90.00	$65.00	$73.00	$90.84	$66.25
106 lin. ft. 180" horseshoe sewer	85.00	95.00	140.00	99.73	100.00	80.00	135.00	78.15	73.50
174 lin. ft. drop section	130.00	220.00	310.00	205.79	195.00	210.00	205.00	278.00	194.75
19 lin. ft. connecting section	150.00	135.00	250.00	192.16	150.00	150.00	172.00	251.12	185.20
745 lin. ft. 48" sewer	10.00	16.00	15.00	11.72	15.00	10.00	22.00	12.85	8.50
470 lin. ft. 15" pipe sewer	5.50	3.00	3.50	3.49	3.10	4.00	3.25	3.38	4.65
5,600 lin. ft. 12" pipe sewer	4.75	2.75	2.60	3.00	2.50	3.00	3.06	3.38	4.40
1,000 lin. ft. 12" pipe sub-drain	.01	.40	.50	.65	2.50	.50	.06	.01	.65
1,100 lin. ft. 12" temporary drain pipe	.01	1.50	2.30	2.47	2.50	2.00	2.35	3.11	3.38
1 manhole, Class A	250.00	260.00	310.00	260.00	230.00	900.00	455.00	203.04	250.00
6 manholes, Class B	150.00	90.00	470.00	150.00	230.00	200.00	390.00	189.00	119.00
4 manholes, Class C	150.00	80.00	440.00	100.00	160.00	100.00	306.00	116.10	92.00
3 manholes, Class D	100.00	90.00	250.00	100.00	160.00	100.00	306.00	57.78	119.00
6 manholes, Class E	75.00	80.00	60.00	75.00	160.00	75.00	66.00	32.13	47.00
1 manhole, Class F	125.00	85.00	125.00	100.00	160.00	75.00	520.00	105.37	82.00
74 manholes on pipe sewer	60.00	45.00	60.00	50.00	75.00	60.00	66.00	55.58	58.40
12 sewer basins reconnected	75.00	50.00	30.00	25.00	65.00	50.00	65.00	67.50	67.50
680,000 ft. B. M. sheeting and bracing	30.00	26.00	26.00	27.00	32.00	40.00	3.80	10.00	38.30
100,000 ft. B. M. foundation planking	30.00	10.00	28.00	27.00	32.00	16.00	28.50	10.00	34.85
5 cu. yds. Class "A" concrete	12.00	6.00	8.00	10.00	10.00	10.00	11.00	12.00	12.00
1,000 cu. yds. Class "B" concrete	7.50	5.00	6.00	5.00	8.00	4.00	8.15	.01	7.00
Totals	$295,667	$353,000	$332,639	$369,891	$387,900	$312,000	$349,542	$366,000	$321,666

SEWER SYSTEM.—Collinsville, Ill.—Three bids were received on Aug. 20 by the Board of Local Improvements, J. L. R. Wadsworth, Chn., for constructing sanitary septic sewer system in Dist. No. 1. Burns & McDonnell, Kansas City, Engrs. The bid of JOHNSON & CO., of Collinsville, was accepted. The itemized bid was as follows: Excavation, up to 8', 35 cts.; excavation, 8' to 12', 75 cts.; excavation, 12' to 16', $1.10; 8" vitrified pipe, 21½ cts.; 10" vitrified pipe, 26¾ cts.; 12" vitrified pipe, 32½ cts.; 6" on 8" Y connections, 35 cts.; 6" on 10" Y connections, 47 cts.; 6" on 12" Y connections, 57 cts.; 12" cast-iron pipe, $1.90; 10' manholes, $57; 15' manholes, $72.25; flushtanks, $105.60; lampholes, $10; concrete, $9.75; total, $18,831; time, Jan. 1, 1908.

CIVIL SERVICE EXAMINATIONS.

BRIDGE DESIGNER.—Albany, N. Y.—The following persons have passed the civil service examination held on Aug. 24 by the State Civil Service Commission for the position of Bridge Designer in the State Service: Henry Auerbach, 155 Vernon Ave., Brooklyn, N. Y., 90.64%, and E. L. Pierce, 113 Winthrop St., New Britain, Conn., 75.74%.

VITICULTURAL SUPERINTENDENT (MALE).—California.—The U. S. Civil Service Commission, Washington, D. C., announces an examination on Sept. 18 to secure eligibles to fill a vacancy in the position of Viticultural Superintendent (male), at $1,500 a year, in the Bureau of Plant Industry, Dept. of Agriculture, and similar vacancies as they may occur. The appointee to this position will be required to attend to the details of the work in connection with the viticultural investigations of the Bureau of Plant Industry in California. He must have thorough knowledge and practical experience in vineyard work in that State. Application Form 1,312.

MARINE STEAM ENGINEER.—Jackson Barracks, La.—An examination will be held on Sept. 25 by the U. S. Civil Service Commission to secure eligible to fill a vacancy in the position of Marine Engineer, Quartermaster's Department-at-Large, Jackson Barracks, La., launch "Lancaster," at $840 a year, and vacancies as they may occur in any branch of the service requiring similar qualifications. Attention is invited to the fact that applications for the position of marine engineer may be filed at any time, but only those filed prior to the hour of closing business on Sept. 25, with the Civil Service Commission, Washington, D. C., in complete form, will be considered for the specific vacancy mentioned. Application Form 1,093.

AMENDMENTS.—New York, N. Y.—Notice is given by the Municipal Civil Service Commission of the proposed amendments of the Rules and Classification of the Municipal Civil Service Commission of the City of New York, as follows: Amending the classification of positions in the Competitive Class, Part I., as follows: By striking from Group 1 the title "Inspector of Pipe Laying, Pipes and Hydrants," and adding thereto the following: "Inspector of Hydrants, Stop-cocks and Shop Work," "Inspector of Pipes and Castings," "Inspector of Pipe Laying," "Inspector of Taps and Connections."

By striking from Group 2 the title "Inspector of Light and Ventilation" and adding thereto the following: "Inspector of Heating and Ventilation," "Inspector of Painting," "Supervising Inspector."

By striking from Group 3 the titles "Inspector of Electric Lighting and Conductors" and "Dynamo Engineman," and adding thereto the following: "Junior Draftsman," "Mechanical Draftsman (Electrical)," "Dynamo Engineer," "Electrical Engineer," "Inspector of Light and Power," "Inspector of Electrical Conductors."

By adding to Group 4 the following: "Junior Draftsman," "Structural Steel Draftsman," "Chief Draftsman," "Chief Plan Examiner, "Engineer Inspector," "Structural Engineer."

By adding to Group 5 the following: "Junior Draftsman," Mechanical Draftsman (Heating and Ventilation)," "Mechanical Draftsman (Sanitary)," "Chief Draftsman."

By adding to Group 11, under the heading "Inspector," the following: "Inspector of Licenses," "Assistant Inspector of Combustibles." Frank A. Spencer, Secy. Comn.

*TOPOGRAPHICAL DRAFTSMAN. — New York, N. Y.—Eligible list was established on Aug 12 as a result of the examination held by the Municipal Civil Service Commission, 299 Broadway, on May 29, for the position of Topographical Draftsman. Vacancies exist in the Board of Water Supply. Salary $1,200 a year. Frank A. Spencer, Secy. There are 141 eligibles. The first 15 are as follows:

Charles G. Lyman, Gillen House Babylon, L. I. 89.80%
Jesse A. Darling, 116 Third St., Long Island City 89.10%
Frederick C. Ziegler, 2816 Ave. F, Brooklyn 88.90%
Sigmund Muenz, 263 West 121st St. 87.70%
John F. Greathead, 526 Tallman St., Syracuse 86.80%
Bernard Shane, 350 Willis Ave., The Bronx 86.70%
Frederick H. Mellert, 1692 Monroe av., Bronx 85.90%
Nathaniel Weisel, 16 West 112th St. 85.60%
James A. Harte, Fort Independence St., Kingsbridge 85.60%
Isidor Segal, 149 East 118th St. 84.70%
Sol Kronberg, 2159 83d St., Brooklyn 84.50%
Harry A. Cook, 132 Fairview Ave., Jersey City, N. J. 84.50%
Hans Tradelius, 2 Ely Ave., Long Island City 84.50%
Harold B. Catlin, 343 West 20th St. 84.40%
William L. A. Auctander, 994 Grant Ave., The Bronx 84.10%

CHAINMAN.—Albany, N. Y.—The list of those who passed the civil service examination held on May 27th by the State Civil Service Commission for the position of Chainman in the State Service has just been established. There are 140 eligibles on the new list. The first 15 are as follows:

I. Howard Crego, Baldwinsville, N. Y. ..... 95.5 %
Edward H. Leggett, 706 East Buffalo St., Ithaca, N. Y. 94.05%
Lewis H. Rutherford, Waddington, N. Y. ..... 93.1 %
Dana M. Miner, Mt. Pleasant Academy, Ossining, N. Y. ..... 93 %
Arthur E. Aldrich, Philadelphia, N. Y. ..... 92.7 %
Harry T. Tuthill, Albion, N. Y. ..... 92.6 %
Harry A. Mereness, 52 East St., Oneonta, N. Y. ..... 92.2 %
Thomas H. Holmes, Western Ave., Albany ..... 92.1 %
Henry V. Button, Waterford, N. Y. ..... 91.9 %
Thomas J. Lovine, 316a State St., Albany ..... 91.8 %
Walter J. Craig, 44 Watervliet Ave., Albany ..... 91.5 %
Roy G. Pratt, 133 Grace St., Syracuse, N. Y. ..... 91.1 %
Carroll H. Van Denburg, 107 Shonnard St., Syracuse, N. Y. ..... 91.1 %
Herbert J. Stevens, 420 Crouse Ave., Syracuse, N. Y. ..... 90.8 %
Philip K. Lighthall, 419 Douglas St., Syracuse, N. Y. ..... 90.7 %

FOREMAN OF ROCK BORINGS.—Albany, N. Y.—The following persons have passed the civil service examination held on Aug. 24th by the State Civil Service Commission for the position of Foreman of Rock Borings in the State Service:

Joseph E. McFadden, 46 Barclay St., Port Jervis, N. Y. 95%
Herman Kramer, 63 Norwood Ave., Brooklyn, N. Y. 94%
Thomas B. Bowes, 176 Vliet St., Cohoes, N. Y. 88%
Jas. H. Baker, 167 Jackson Ave., Long Island City, N. Y. 86%
Richard S. Hodge, 40 Eagle St., Albany, N. Y. 82%
Martin A. Meyer, 172 Rutledge St., Brooklyn, N. Y. 79%
John M. Pilling, 83 Fifth Ave., Upper Troy, N. Y. 78%
Benjamin S. Abrams, Charlotte, N. Y. 77%
John W. Main, Willard House, Weedsport, N. Y. 76%
Loriston F. Amsden, 80 Hudson Ave., Albany, N. Y. 75%

INDUSTRIAL NOTES.

THE DUPLEX METALS CO., 208 Fifth Ave., New York, manufacturing the Monnot copper-clad product, has appointed Mr. Avery P. Eckert as general sales manager.

THE UNIVERSAL PORTLAND CEMENT CO., Chicago, states that J. C. Van Doorn has been appointed Northwestern Sales Agent with office in Security Bank Building, Minneapolis.

THE SPRAGUE ELECTRIC CO., New York City, reports the receipt of the largest single contract ever awarded for electrical hoisting and conveying equipment, consisting of 10 S-12 monorail cranes, 150 automatic track switches, 1½ miles of track, supporting structure, etc.

BURNS & McDONNELL, engineers, of Kansas City, Mo., have moved their offices from the Dwight Bldg., to 821-23 Scarritt Bldg. In the new location they are desirous of receiving new editions of all catalogs pertaining to water-works, sewers and electric lighting.

THE NORTH METROPOLITAN ELECTRIC POWER SUPPLY CO. has placed an order with Messrs. Heenan & Froude Limited, of Manchester and Worcester, England, for a refuse destructor to be erected in conjunction with the electric power station they are about to erect for the supply of electrical energy in the city and rural district of St. Albans, England. Each unit of the destructor, which will be a duplicate and can destroy upwards of 40 tons of refuse per day, will be provided with a water tube boiler capable of utilizing the whole of the heat from the combustion of the refuse for generating steam for use in the power station. The destructor is to be ready for operation early in the new year.

THE EDISON PORTLAND CEMENT CO. states that the Philadelphia office of the company on Sept. 1 was removed to the Arcade Building, and James T. Wakeman will be in charge as Philadelphia representative. The manager of sales will be located in the St. James Building, New York City. S. Churchill is New York representative, and M. M. Hunter, Machesney Building, Pittsburg, is Western representative.

THE CHAPMAN VALVE MFG. CO., Wm. V. Threlfall, general manager, Indian Orchard, Mass., has combined its St. Louis storerooms and offices and located at 16 South Twelfth St., it is stated, where a very largely increased stock of valves will be carried. The company has within the past year doubled the capacity of its factory. It now claims to have by far the largest plant devoted exclusively to the manufacturing of valves.

THE POWER SPECIALTY CO., 111 Broadway, New York, has recently concluded arrangements whereby it is secured the exclusive sale of Duval Metallic Packing in this country, Canada and Mexico. It will carry a complete stock of this packing in standard sizes, enabling it to fill orders promptly. This company has just received from the press a new and enlarged catalog descriptive of the Foster Superheater and other steam specialties including the packing mentioned, copies of which will be forwarded upon request.

THE DAYTON PNEUMATIC TOOL CO., Dayton, O., advises us that on account of the increased business of the company in the Buffalo district, an agency has been established with Root, Neal & Co., 178-180 Main St., Buffalo, N. Y. The latter concern will carry in stock a complete line of "Dayton" and "Green" pneumatic hammers as well as repair parts and accessories, thus enabling them to supply the wants of the users of "Dayton" tools without delay.

THE PAWLING & HARNISCHFEGER CO., of Milwaukee, large builders of traveling cranes of every description, has twice been obliged, due to the increase of business, to enlarge its original plant, built only a few years ago. The second addition to be made is now practically completed, although it will not be ready for occupancy for a month or two. The main building, housing and bridge, erecting, assembling, machine, electrical and stock departments, is 290 × 355 ft. The addition is 100 ft. wide and extends the entire length of the main building or 355 ft. It is built of brick and steel, with a saw-toothed roof, and when it is occupied the entire floor space will be 127,800 sq. ft. New machinery will be installed in the addition, and the crane runways and sprinkler system of the main building will be extended. In consequence of the increased floor space and the necessary new machinery for it, it has been necessary to make corresponding additions to the power plant. An Allis-Chalmers cross-compound Corliss engine of 150 HP. and an Allis-Chalmers electrical generator of 100 KW. capacity, together with a 400-HP. Heine boiler and a Hawley down-draft furnace, have been added to the existing equipment which also includes Allis-Chalmers engines. With these additions the aggregate boiler capacity will reach 1,000 HP. and the generating capacity 700 KW. With the completion of the new extension it is expected that the plant output will be increased by at least 25%.

AN ORDER HAS BEEN PLACED through Messrs. Westinghouse, Church, Kerr & Co., of New York, with the Bradley Pulverizer Co. for Griffin mills for the equipment of the entire grinding plant of the 3,000 barrels per day Portland cement works now being erected by the Ajax Portland Cement Co., Independence, Kan. This order was placed after a thorough and exhaustive investigation by the expert engineers of Messrs. Westinghouse, Church, Kerr & Co. of all the different grinding machinery in use in this country, after which investigation they recommended the Griffin mill to their clients as being in their opinion the best mill on the market for use in cement works.

Among the exhibitors at the recent builders', contractors' and architects' supply exhibition held at Victoria Rink, Montreal, P. Q., were: The Canadian Fairbanks Co., concrete mixers and heavy hardware; Philip Carey Mfg. Co., magnesia roofing; Armstrong Cork Co., insulating devices; Colonial Dolomont Company, patent flooring; W. G. Browne Co., wall papers and machinery; Maison Jean Paquette, builders' hardware and plumbers' supplies; A. P. Lemarquand, French decorative devices and tiling; D. McGill, Phillipsburg marble and flooring materials; International Steel Co., steel derricks and stairways and ornamental metal work; Stinson-Reeb Co., builders' supplies and patent scaffolding; E. F. Dartnell Co., New York hydraulic pressed bricks; E. S. Dodds, paints and enamels; Dominion Radiator Co., heating appliancs; T. A. Morrison & Co., builders' supplies and artificial stone; Alexander Bremner, builders' supplies and fireproof plasterer; Lamprairie Brick Co., pressed bricks, etc.; Martin Senour Co., paints and painters' suppplies; Metal Shingle and Siding Co., metal roofing and lathing materials; Alex. McArthur & Co., builders' supplies; Standard Cement Co., cements; Dodge Manufacturing Co., split wood pulleys and machinery; Thos. Hodgson, revolving sashes; Francis Hyde Co., drain pipes and ornamental plaster work; Montreal Terra Cotta Co., perforated bricks and terra cotta flooring; Warden-King Co., furnaces and metal stable equipment; Hill Electric Switch Co., electric supplies; Wettlauffer Bros., Stratford, portable concrete mixers; Gurney-Massey Co., furnaces and radiators; Locerby & Lacomb, builders' materials.

TRADE PUBLICATIONS.

DRYING APPARATUS FOR INDUSTRIAL PLANTS.—The Green Fuel Economizer Co., Matteawan, N. Y. Bulletin, No. 107; paper; 6 × 9 ins.; pp. 16; illustrated.

Various blast and exhaust fans, heaters, and complete drying outfits, are clearly described and illustrated in this bulletin.

GALVANIZED STEEL PAINT.—The Arlington Mfg. Co., Canton, O. Paper; 6 × 3¼ ins.; pp. 4.

This paint is especially for priming new galvanized steel or iron.

GREASE AND OIL TRAP.—Warren Webster & Co., Camden, N. J. Folder; paper; 3¼ × 6 ins.; pp. 8; illustrated.

The Webster grease trap is designed for use in connection with oil separators or feed-water heaters for ordinary non-condensing conditions. This folder fully describes it.

INDUSTRIAL AND PORTABLE RAILWAYS.—The Arthur Koppel Co., Machesney Bldg., Pittsburg, Pa. Bulletin No. 205; 8 × 10 ins.; pp. 12; illustrated.

This bulletin covers a large line—rails, steel ties, switches, turntables, dump and mine cars, coal buckets, iron and steel-handling cars, and light locomotives.

RECIPROCATING ENGINES.—The Ball Engine Co., Erie, Pa. Paper; 6½ × 6½ ins.; pp. 18; illustrated.

This pamphlet describes some of the types of engines with both slide and Corliss valve gear, developed by a quarter-century of engine building. The latest valve gears, bearings, crossheads, connecting-rods, governors and oiling systems are briefly outlined.

GRAPHITE GENERATOR AND MOTOR BRUSHES.—The Jos. Dixon Crucible Co., Jersey City, N. J. Paper; 3½ × 6¼ ins.; pp. 12; illustrated.

A history of the development of the present Dixon graphite brush is herein given. A summary of conclusions deduced from tests made by Prof. A. F. Ganz, of Stevens Institute, Hoboken, N. J., is also given.

PUMPING MACHINERY.—Fred. M. Prescott Steam Pump Co., Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 148; illustrated.

This very complete and comprehensive catalog shows a variety of apparatus, classified as mine, boiler-feed, fire and general service pumps, condensing machinery and water-works pumping engines. Very complete descriptions and tables of dimensions are included.

For other Proposal Advertisements see pages 55, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 82.

BRIDGE ACROSS THE LOS ANGELES RIVER.

Los Angeles, Cal.

The Board of Public Works of the City of Los Angeles invites sealed proposals for the construction of a Reinforced-Concrete Bridge across the Los Angeles River at Seventh street, in the City of Los Angeles, California. The said bids must be filed at or before the hour of eleven o'clock a. m. of Monday, October 14, 1907, at the office of the said Board, Room 18, City Hall, Los Angeles, California.

The said work is to be done in strict accordance with the plans and specifications therefor adopted and on file in the office of the said Board. Copies of the same will be furnished intending bidders on application to the City Engineer of said City and the payment to him of the sum of $5.00. In general terms, the said bridge is to be a reinforced-concrete arch bridge, about 318 feet long, 70 feet wide, and consisting of three 80-foot spans, and will contain about 5,440 cubic yards of concrete.

Each bid must be accompanied by a check certified by a responsible bank and payable to the order of James A. Anderson, President of the Board of Public Works of the City of Los Angeles, for an amount not less than $6,000.00, or by a satisfactory bond for the said amount and so payable, as a guarantee that the bidder will enter into the proposed contract if the same is awarded to him.

All other details in connection with the filing of the bids and the performance of the said work are stated in the said specifications.

The Board of Public Works reserves the right to reject any and all bids.

By Order of the Board of Public Works of the City of Los Angeles.

HORACE B. FERRIS,
10-2t Secretary.

BREAKWATER.

Oyster Bay, N. Y.

Sealed proposals will be received until 12 o'clock noon, Wednesday, September 11th, 1907, at the office of the undersigned, 33 Wall Street, New York City, for the construction of a stone breakwater into the waters of Oyster Bay Harbor in the easterly side thereof in front of the premises of the undersigned. Plans or specifications of the same can be seen at the office of the undersigned on and after the 5th inst.

10-1t W. EMLEN ROOSEVELT.

SCHOOL BUILDING.

Bayonne, N. J.

Sealed proposals will be received by the Board of Education of the City of Bayonne, at School No. 8, Avenue C and 27th Street, Bayonne, N. J., on Thursday, Oct. 3, 1907, at 8.30 o'clock P. M., for all labor and material necessary for the construction of Public School Building No. 9, between East 25th and East 26th Streets, in the City of Bayonne, N. J. (excepting the plumbing, gas fitting, heating and ventilating), in accordance with plans and specifications for the same on file in the Superintendent's office, at School No. 8, Avenue C and 27th Street, Bayonne, N. J., and at the office of A. C. Longyear, architect, 126 Liberty Street, New York, where the form of contracts which will be executed can be examined, and where blank forms of proposals and agreement of sureties can be obtained.

Proposals must separately state the cost of damp-proofing and the cost of the iron fence.

No bid or estimate will be received or considered unless accompanied by a surety company bond for ten thousand dollars ($10,000) binding the bidder to execute the contract in case the same is awarded to him. Bonds to the amount of twenty-five thousand dollars ($25,000) will be required of the successful bidder for the faithful performance of the work. Proposals must be enclosed in sealed envelopes endorsed "Proposals for School No. 9, Bayonne, N. J.," and handed to the Secretary of the Board of Education in open meeting when called for in the order of business relating to such proposals.

All surety company bonds, excepting those of the successful bidder, will be returned to the persons by whom they were submitted, within three days after the contract is awarded, and the successful bidders' surety company bond shall be returned to him upon the execution of his contract, and the delivery and approval of his bonds with proper sureties.

This contract will be awarded subject to the issuance of the necessary bonds by the Mayor and Council for the construction of the building.

The Board reserves the right to reject any and all proposals.

By order of the Board of Education.

R. T. HEWITT,
10-2t Secretary.

WATER-WORKS IMPROVEMENT

Rome, N. Y.

Sealed proposals will be received by the Board of Water and Sewer Commissioners, of the City of Rome, N. Y., until 12 o'clock noon, on the 25th day of September, 1907, for the construction of a dam on Fish Creek with all its accessories, also a tunnel about 5,500 feet long, as shown on the plans or called for in the specifications.

Plans can be seen and specifications obtained with reproduction of plans at the office of the Board or of Knight & Hopkins, Engineers, Rome, N. Y.

The Board hereby reserves the right to reject any or all bids, or accept any that in their judgment will be for the best interest of the City.

A bond satisfactory to the Board in amount and sureties will be required of those to whom the contract may be awarded.

Cash or certified check, made payable to the order of the Board of Water Commissioners, of Rome, N. Y., to the amount of $1,000.00, must be deposited by each bidder and accompany his bid as a guarantee that in case the contract is awarded him, he will, within seven days thereafter, execute said contract.

Bids must be sealed and addressed to the Board of Water and Sewer Commissioners, of Rome, N. Y., and marked on the outside of the envelope enclosing them, "Proposals for Dam and Tunnel."

Board of Water and Sewer Commissioners.
HARVEY S. BEDELL, Chairman.
BARTON HASELTON.
W. W. BARNARD.
J. T. WIGGINS.
A. R. KESSINGER, Mayor.
10-3t RAY ARMSTRONG, Clerk.

PAVING BRICK.

York, Pa.

Bids will be received at the Engineer's Office of the York Street Railway, York, Pennsylvania, for the furnishing within one month, f. o. b. Hanover, Pennsylvania, of 250,000 paving brick. 10-2t

U. S. ENGINEER OFFICE, Wilmington, Del., Sept. 3, 1907.—Sealed proposals will be received here until 11 a. m., Oct. 3, 1907, for construction of stone jetties, Cold Spring Inlet, N. J., involving about 285,000 tons of stone. C. A. F. FLAGLER, Maj. Engrs. 10-4t

WATER PLANT.

Borough of Highlands, N. J.

Sealed proposals for furnishing the material and performing the work required in the construction of a Municipal Waterworks will be received by the Mayor and Council of the Borough of Highlands, N. J., at a meeting to be held at Firemen's Hall on Sept. 23th, 1907.

The Council will be in session to receive bids from 8.00 to 8.30 o'clock in the evening. Bids will be opened promptly at 8.30 o'clock.

Proposals properly endorsed must be presented personally, and at the above time or place, and must be made out in accordance with the form accompanying each specification.

General proposals covering the entire work are required. No proposals for portions of the work will be entertained.

The work includes: (1) Pumping House and Foundations, (2) Stand Pipe, (3) Pipe Line, (4) Compound Duplex Steam Pump, (5) Air Compressor, (6) Driven Well and Receiving Tank, (7) Steam Boiler and Piping.

Plans and specifications may be had at the office of the Engineers, Runyon & Carey, 122 Market St., Newark, N. J.

The right is reserved to reject any or all bids.

TUNIS H. LANE,
10-2t Borough Clerk.

ELECTRICAL MACHINERY.

Wyandotte, Mich.

Sealed proposals addressed to the undersigned will be received until 8 o'clock P. M. Standard Time, on Tuesday, Sept. 17, 1907, for the following electrical machinery:

First—(1) 300-HP. Water Tube Boiler.
Second—(1) 240-KW. Generating Unit, Complete.
Third—(1) Generator Panel.
Fourth—(1) Feeder Panel.
Fifth—(1) Series Enclosed A. C. Arc Lamp System.

Specifications will be furnished upon application to the Secretary of the Board of Public Works. Bids will be accepted for the whole or any part of the said apparatus. The right is reserved by the Board of Public Works to reject any or all proposals.

Board of Public Works,
City of Wyandotte, Mich.
JAMES G. PINSON,
10-2t Secretary.

U. S. ENGINEER OFFICE, Wilmington, Del., Sept. 3, 1907.—Sealed proposals for construction of building at Cape May, N. J., will be received here until 11 a. m., Sept. 14, 1907. Information on application. C. A. F. FLAGLER, Maj. Engrs. 10-2t

U. S. ENGINEER OFFICE, Mobile, Ala., August 31, 1907.—Sealed proposals for construction of a wooden hull stern-wheel snagboat, will be received here until 11 o'clock A. M., October 1, 1907, and then publicly opened. Information furnished on application. H. JERVEY, Maj., Engrs. 10-4t

Situations Wanted

Bridge and Structural Engineers.

YOUNG TECHNICAL GRADUATE desires position as detailer on structural or bridge work; two years' experience. Address "X. A. 10," Engineering News, New York. 10-2t

Surveyors.

WANTED, near New York, a rodman with some technical education, familiar with handling transit. Fair tracer. State age, experience and salary expected. Address "B. B. 10," Engineering News, New York.

Situations Open

WANTED. — Several first-class structural draftsmen, capable of handling mill building work. Address "Z. A. 10," Engineering News, New York. 10-2t

PRACTICAL REINFORCED CONCRETE man wanted to act as assistant superintendent on important construction work. State references, experience in detail, age and salary expected. Address "A. B. 10," Engineering News, New York. 10-1t

Miscellaneous Wants

SURVEYORS.—Advertiser, having well furnished offices, with all necessary equipment, desires first-class surveyor and C. E. with about $1,000 to join him in extension of business. Address "L. A. 9," Engineering News, New York. 10-tf

Books on LETTERING
By C. W. REINHARDT. Price, $1.00
By Prof. H. S. JACOBY. Price, $2.00

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Borough Clerk.

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LIGHT, HEAT

9-13 Equipment,
9-14*Power-hous
9-14 Motor-gener
9-16 Lighting, N
9-17*Machinery,
9-17 Equipment,
9-17 Generator,
9-20 Power plan
9-21 Power-hous
9-23 Equipment,
9-28 Lighting
9-30*Lighting f
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9-23 Heating
9-24 Post-off
9-24*Hospital
9-26 Court-h
9-27 Memorial
9-30*Pavilion
9-30*Post-off
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10- 3 Court-h
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10- 7 Post-off
10- 9 Reading
10-12*Hospital
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